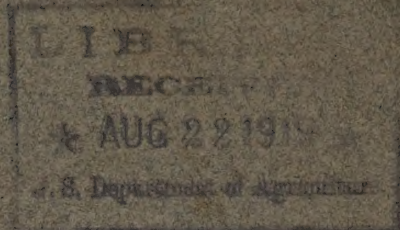


63.9
AUSTRALIA
1907-1909

ON 1907-1908.



WRIGHT, STEPHENSON & CO, LTD.
DUNEDIN.

Wright, Stephenson & Co., Ltd.

PRICE
LIST of

MANURES.....

AGRICULTURAL SEEDS..

VEGETABLE SEEDS.....

FLOWER SEEDS.....



TERMS OF SALE: On Manures and Agricultural Seeds— $2\frac{1}{2}\%$ discount for cash within one month, or three months free of interest.

On Vegetable and Flower Seeds—The value of which, at List Price, amounts to 20s., we allow 5% (or 1s in the £) for cash with order, or $2\frac{1}{2}\%$ for cash within a month, or three months free of interest.

DELIVERY: All Manures and Agricultural Seeds are delivered on to trucks at our store. Vegetable and Flower Seeds (except Peas and Beans) are delivered by parcel post, free.

ORDER SHEET: Our Customers will be considering us if they will kindly use Order Sheet attached at end of Catalogue, which will also tend to minimise mistakes.

TERMS & CONDITIONS OF SALE: Wright, Stephenson & Co., Ltd., give no warranty expressed or implied, as to the description, quality, productiveness or any other matter of any Seeds they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned, carriage prepaid. Wright, Stephenson & Co., Ltd., will take it for granted that all who order Seeds from them do so with a full knowledge of the preceding.

..... **CORRESPONDENCE** Pertaining to Seed or Manures Invited.....

NOTE—Owing to the continual fluctuation in the Prices of Seeds we do not bind ourselves to deliver at Prices Quoted, but provided stocks are available will do so at Market Rates at the time.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" MANURES

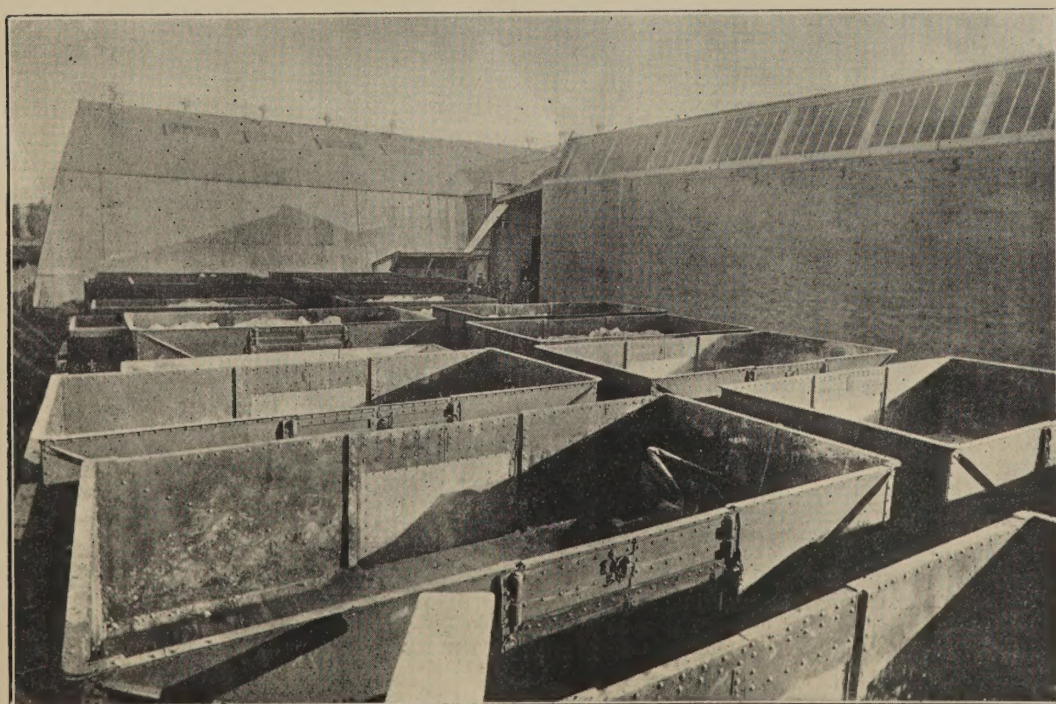
....Landing Manures....

It may be of interest to some of our customers to see how the raw materials are handled when first received from the Islands in their natural state. The following illustrations show the storing of a cargo of 3000 tons of Christmas Island Phosphate, analysing 84% Phosphate of Lime at our Invercargill Stores.



A Rake of Loaded Trucks Coming In.

The Phosphate is delivered by the ship at the rate of 500 to 600 tons per day, and consequently our plant for stowing has to be able to handle this quantity.



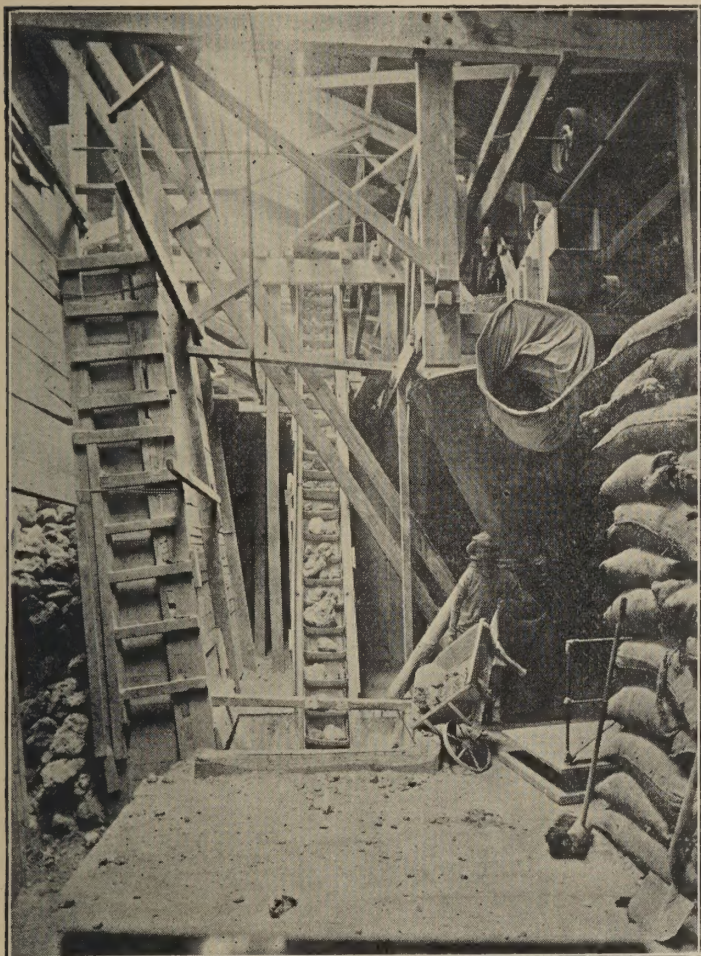
Our Truck Yard (capacity 22 Trucks)

We receive, however, every consideration from the Railway Authorities who keep us regularly supplied with loaded trucks during the day and night.

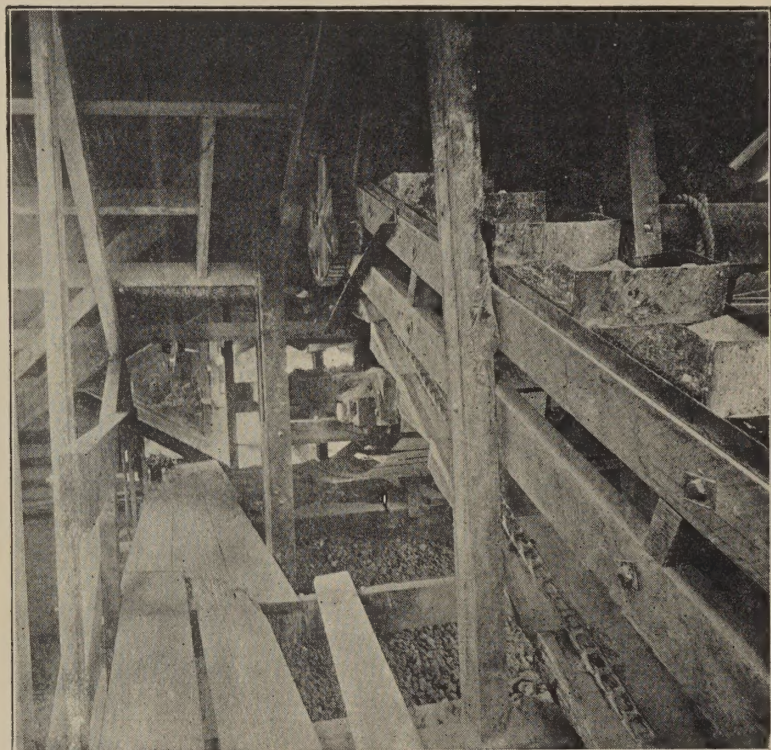
The peculiar looking building with the sloping sides at the far side of the trucks, is the Phosphate Bin. The walls have to be built of very heavy timbers, and are sloped inwards to take off the enormous thrust exerted by the material when stacked to the height of 22 feet.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" SEEDS



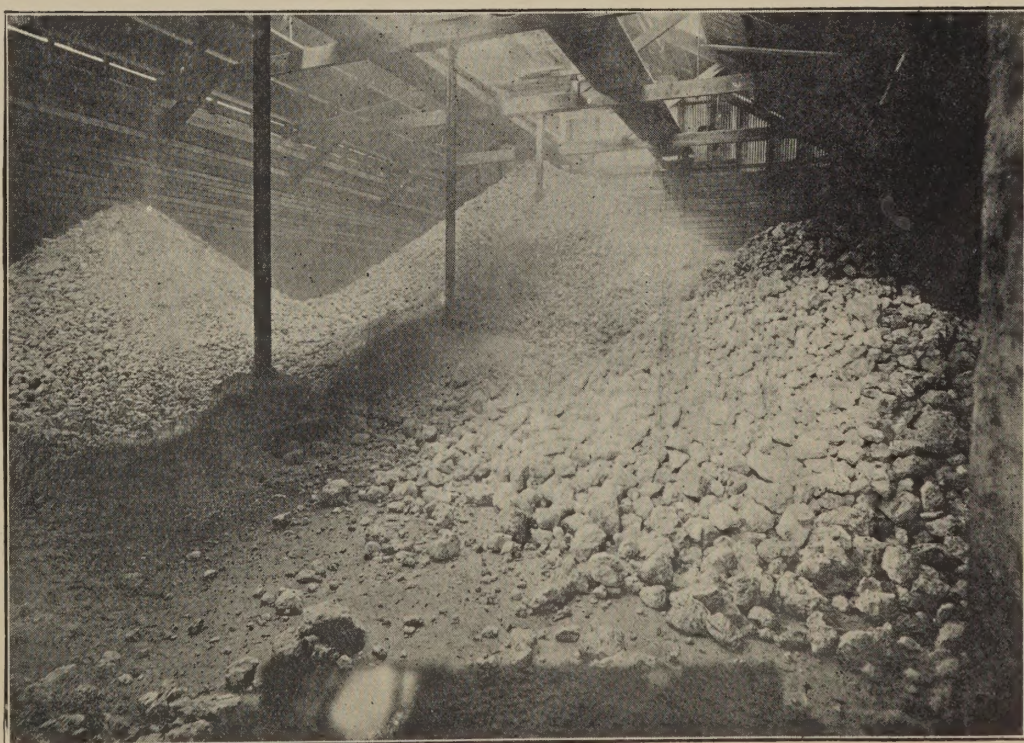
No. 1 Elevator.



No. 2 Elevator.

No. 2 Elevator automatically receives the material from No. 1 and elevates it a further 20 feet and places the Phosphate on a travelling conveyor, which carries it to any desired spot in the Phosphate Store.

The interior of the Phosphate Store shows the method of stacking Phosphate by dropping the same from a travelling conveyor situated high up on the roof. The three heaps, as shown, contain about 500 tons—one days' work.



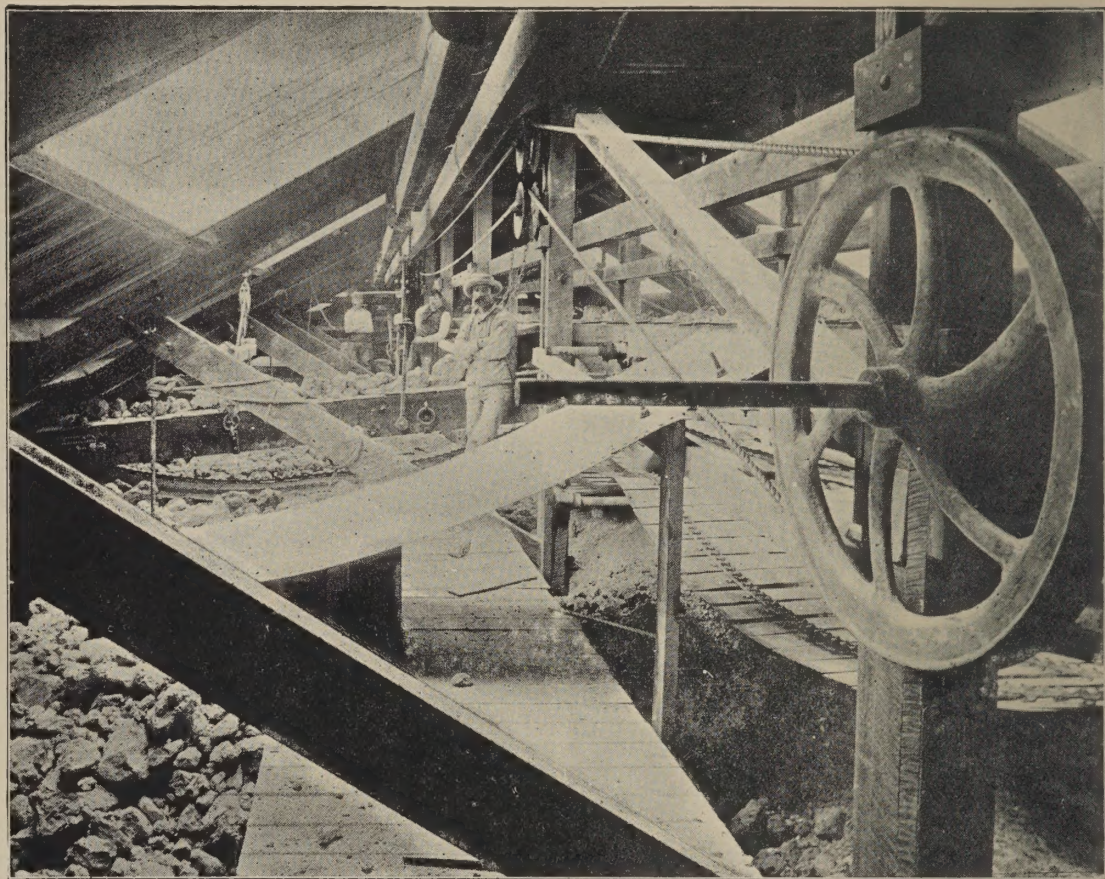
The interior of the Phosphate Store, 70 feet x 60 feet, after one days' work.

Use "CHALLENGE" Manures.

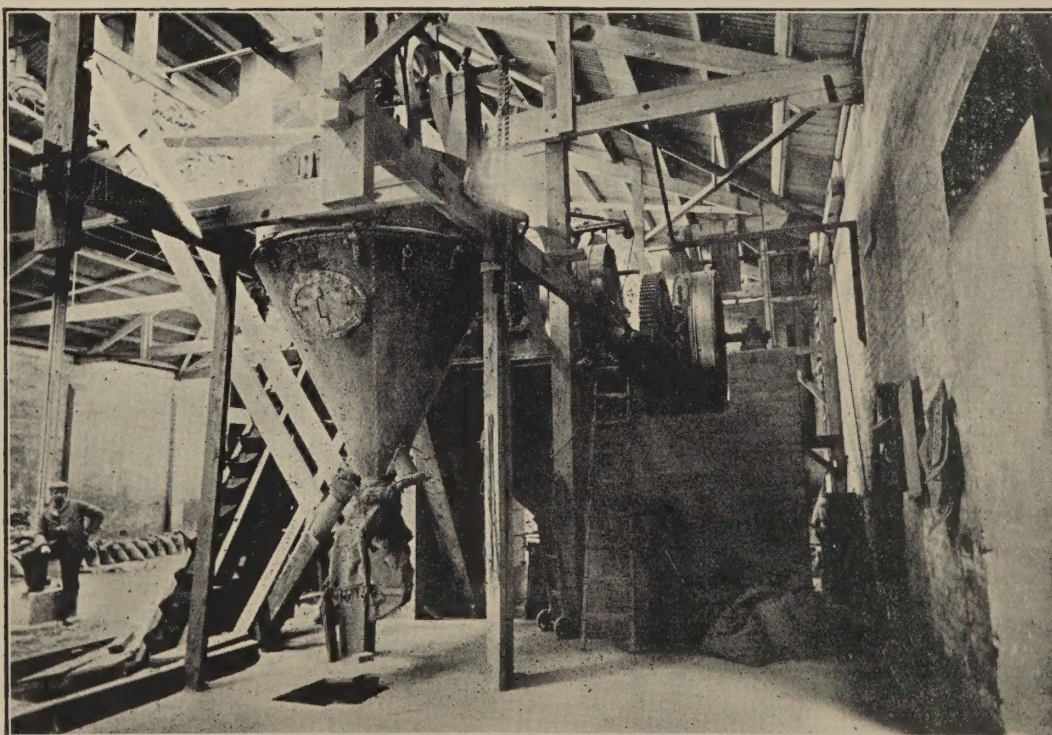
WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" MANURES

The Travelling Conveyor is really a moving table, 100 feet long. The material is automatically placed on this and would, if not intercepted, be carried to the end of the building. At various intervals contrivances are arranged to divert the material from the main conveyor to a side conveyor, which fills up the sides of the building. In this way 3000 tons of Phosphate are stowed without touching the material with a shovel after feeding it into the first Elevator.



Showing the Main Conveyor (100 feet long) and a side Conveyor.



The machine that grinds the Phosphate converts the above lumps into a state as fine as flour.

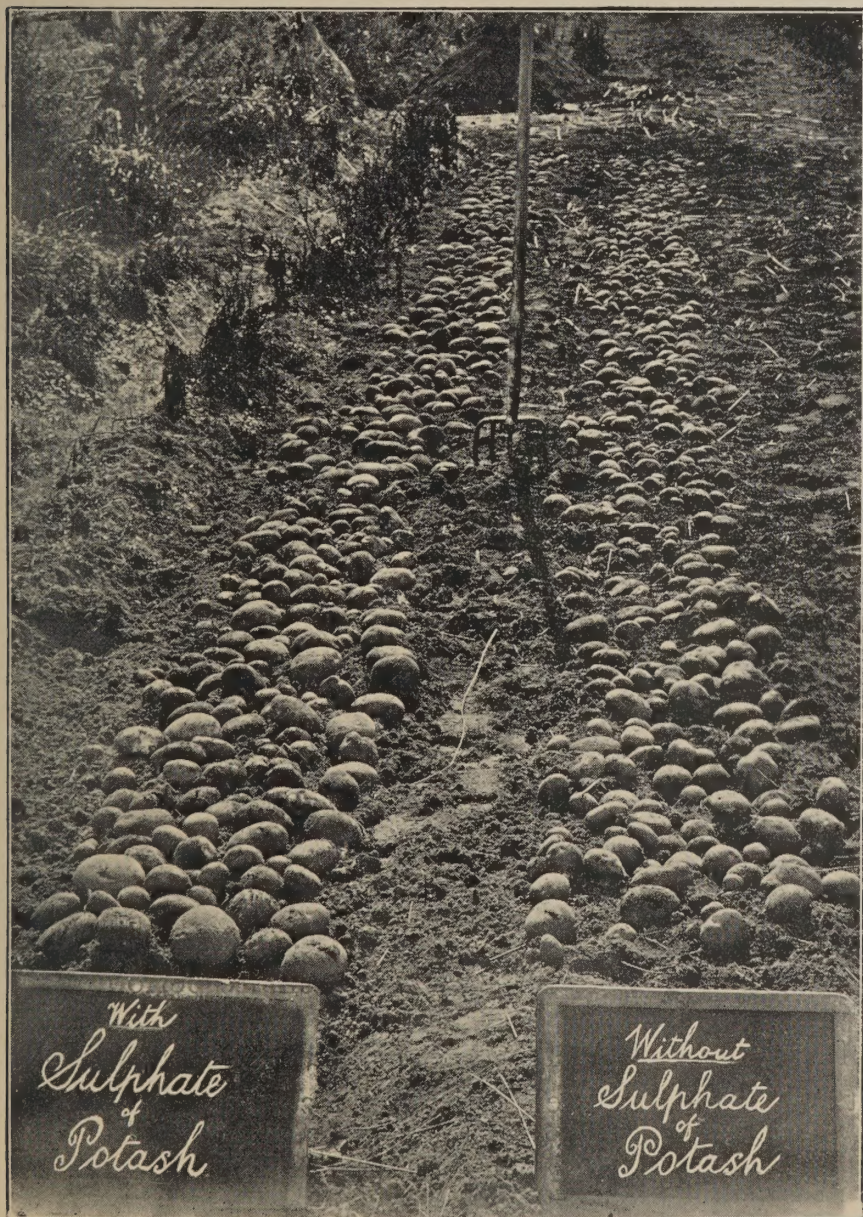
USE "CHALLENGE" SEEDS WITH THEIR MANURES.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" SEEDS

POTASH MANURES AND POTASH MANURING.

The great increase which has taken place in the demand for Potassic Fertilizers throughout Australasia, but more particularly in New Zealand, during the last two years warrants us in placing the following hints on their use before our customers, the more particularly as it would appear that there still exists in some districts considerable doubt as to the quantities which should be used and the manner in which they should be applied to various crops.



Geo. Simpson, West Plains.

Potash Manures are suitable for practically all crops but are especially valuable in the growth of Potatoes, Mangels, Turnips, Oats and Pasture. For Potatoes, it has been proved by experiments carried out all over New Zealand that a dressing of 1 cwt. Sulphate of Potash per acre in combination with the usual quantity of Guano, Super or Bonedust may be relied upon to produce a highly profitable increase of crop. The actual results as determined by careful weighing show that 1 cwt. Sulphate of Potash per acre will increase the yield of marketable tubers by anything from 10 cwt. to $3\frac{1}{2}$ tons per acre.

For Mangels the most suitable form of Potash is probably Kainit. This manure should be applied at the rate of not less than 4 cwt. per acre, and, of course, this in addition to the usual quantity of Phosphatic Manure. In an experiment carried out by Messrs. J. and D. McKenzie, of Woodlands, near Invercargill, the above-mentioned quantity of Kainit produced an increase of over 3 tons Mangels per acre.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" MANURES

In the case of Turnips the three forms — Sulphate of Potash, Muriate of Potash, and 30% Potash Manure—are all suitable. Half-cwt. per acre of any of these added to our ordinary Turnip Fertilizer will not fail to produce a profitable increase on all lands deficient in Potash. The same Manures at the same rates are also suitable for Oats, especially on light and medium soils.



Turnips grown at Geo. Simpson's, West Plains, showing increased growth with the addition of Sulphate of Potash.

It is, however, for top-dressing pasture lands that Potassic Fertilisers have in recent years so rapidly come to the front. The practice of top-dressing pasture lands is at present practically unknown in Southland and Otago, but we feel sure this is so only because its advantages are unknown. There is no farmer in Southland who would not welcome a method by which he could if necessary maintain his grass lands in a more profitable condition for two, three or more years than is at present possible. The advantages are almost too apparent to require enumeration. Lands which have been under grass three years very frequently in the third year give barely sufficient returns to pay the rent and for this reason, the farmer sees himself compelled often at great inconvenience and considerable expense to break up the lea when he would gladly allow the land to remain under grass for other two years. Top-dressing not only makes this possible but renders the breaking up of pasture land merely optional instead of as it now is compulsory, for by judicious top-dressing, grass lands can be maintained in a highly profitable state for an indefinite period.

A pasture is really a crop consisting of two dis-similar classes of plants, viz., grasses and clovers, and therefore presents in respect of its manurial requirements a more complex problem than does an ordinary field crop which consists of only one species of plant. The aim in manuring grass lands should be to encourage the clovers in the first place, for if a vigorous growth of clover can be induced a very considerable quantity of nitrogen will be stored up in the surface soil which

will subsequently become available for the grasses. Exhaustive experiments carried out for many consecutive years on a great variety of soils have shown that undoubtedly the best way to bring about this result is to apply a fairly heavy dressing of

1 CWT. 30 % POTASH MANURE & 2½ CWTs. BASIC SLAG PER ACRE.

These manures should be applied in May or June. The cost of this application amounts to between 15/- and 20/- per acre and for this outlay it is safe to predict that the stock-carrying capacity of the land may be maintained for at least three years, at that of freshly laid down grass.

As an example of the effects of top-dressing poor pasture with a mixture of Slag and Potash, the results of an experiment carried out by the West of Scotland Agricultural College, Glasgow, at Midlocharwoods may be quoted. In this experiment two plots each three acres in area were fenced off. The effects of the manures were estimated in the numbers of sheep grazed. The manures were applied in 1904 and the results carefully recorded for three years, when it was found that while the unmanured land carried only 5 sheep for twenty weeks the same area of manured land alongside carried 9 sheep for the same period, an increase of 80% in the stock-carrying capacity of the land. Careful records of the live weight increases made by the sheep depastured on each plot were kept, from which it was ascertained that the weight of mutton produced on the manured land over and above that grown on the unmanured land amounted to 327 lbs. This amount at 3d per lb gave a gross return of £4 1s 9d which after deducting the cost of the manures, left a profit of £2 3s 3d per acre for the first three years of the experiment, equal to a net return of 14s 5d per acre per annum. This, it must be particularly noted, is the profit obtained from mutton alone. No account is taken of the fact that the yield of wool on the manured plot must have been at least 80% greater than on the unmanured plot, nor has any allowance been made for the fact that the residual value of the artificials and manure would be very considerable when the lea was broken up and placed under crop.

PRICES OF POTASH MANURES.

Kainit.

No 1

Ex Store, Dunedin,

25% Sulphate of Potash=12·4% Dipotassic Oxide ... £4 10s per ton

30% Potash Manure.

No 2

51 to 56% Sulphate of Potash=26·97 to 30·67% Dipotassic Oxide £7 10s „

Muriate of Potash.

No 3

Equal to Sulphate of Potash 101·75=55% Dipotassic Oxide ... £15 10s „

Sulphate of Potash.

No 4

Sulphate of Potash 96%=51·30 Dipotassic Oxide ... £16 „

Basic Slag or Thomas' Phosphate Powder (★ BRAND, Highest Grade) No

37 to 44% Basic Phosphate=17 to 20% Phosphate Anhydride Insoluble £4 17s 6d „

WRIGHT, STEPHENSON & CO. LTD.

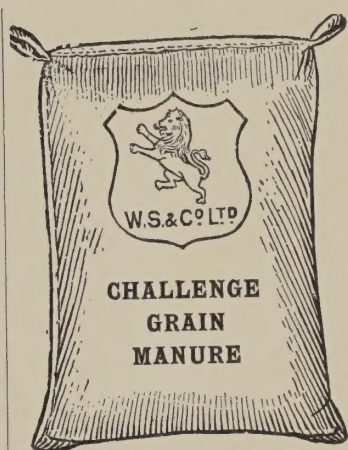
"CHALLENGE" MANURES

No. 6

"CHALLENGE" GRAIN MANURE.

Dressing:
1 to 2 Cwt. per Acre

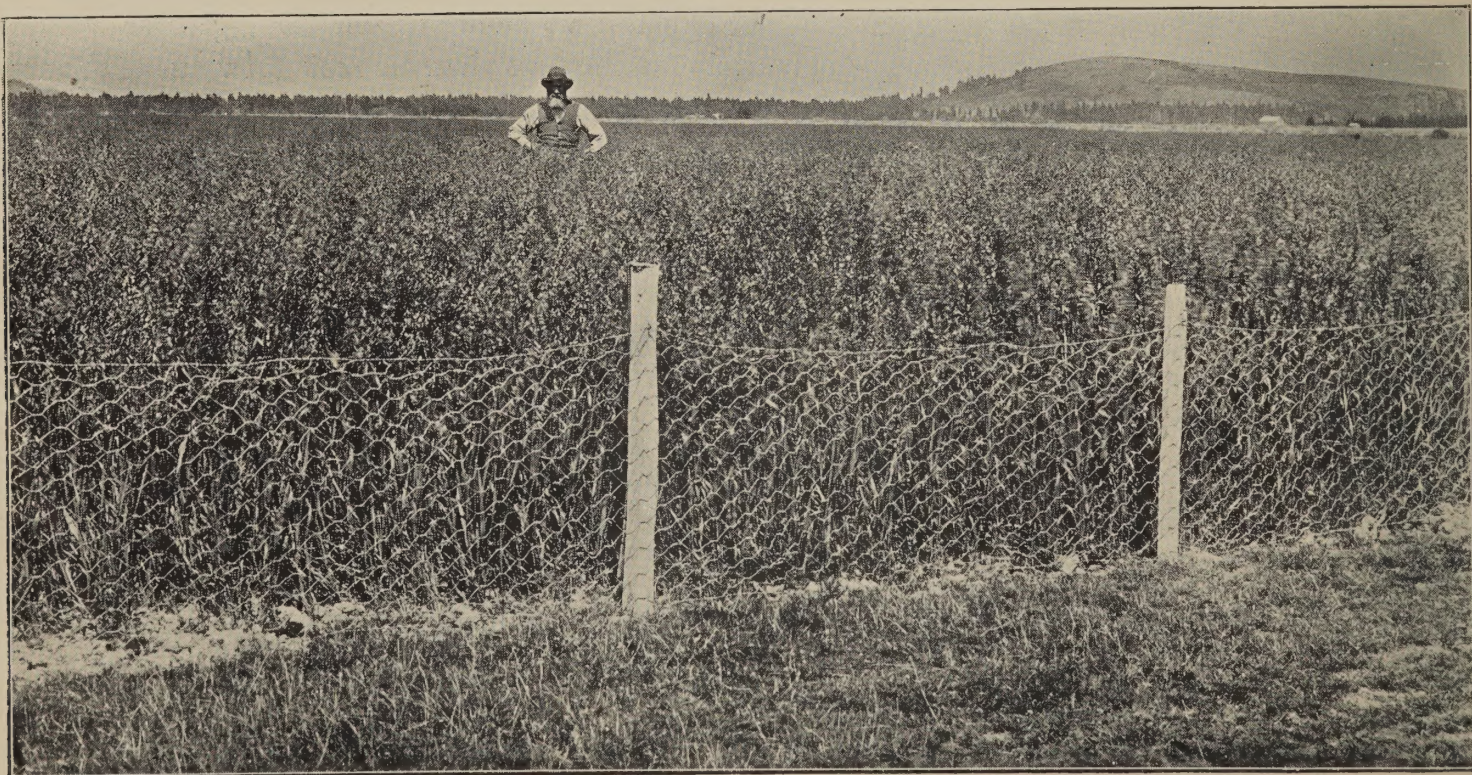
Sold under Guaranteed Analysis
as supplied to the
Minister for Agriculture
"The Fertilizers Act, 1904."



Packed in New Sacks.

SUITABLE FOR
ALL KINDS OF GRAIN

ESPECIALLY SUITABLE
...FOR...
LATE-SOWN CROPS



GARTON OATS.

Grown by Mr. W. A. Cox, Harringtons, with $1\frac{1}{2}$ cwt. "CHALLENGE" Grain Manure per acre.

THIS CROP THRESHED OUT 103 BUSHELS OF FIRSTS PER ACRE.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" SEEDS

"Challenge" Grain Manure—continued.

Don't take away the idea that any Grain Manure on the market will produce 100 bushels per acre.

To benefit by the application of a grain manure, the following conditions must be brought about :

1. Good germination.
2. Suitable nourishment for the young tender roots at the time the young plant leaves the seed and depends on its own roots.
3. A vigorous but not excessive growth of good hard straw.
4. Vigorous development of the plant during the flowering period.
5. Even ripening of the grain.

Experience and observation has enabled us to offer, under the name of **CHALLENGE GRAIN MANURE**, a manure that will produce the above desirable results which will produce an increased yield of from 10 to 30 %.

PRICE—£5 15s. PER TON, EX STORE, DUNEDIN.

Try GARTONS'...

New & Improved Breeds of

WHEAT

BARLEY AND

OATS

THEY INCREASE
YOUR YIELDS & YOUR PROFITS

Read Pages 45 to 62.

WRIGHT, STEPHENSON & CO. LTD.

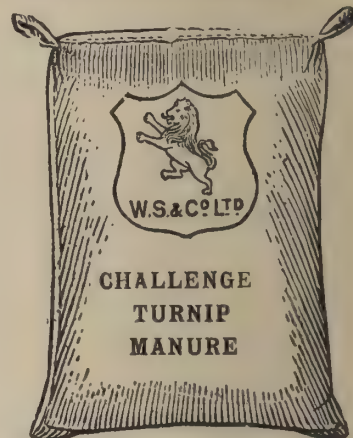
"CHALLENGE" MANURES

"CHALLENGE"

No. 7

TURNIP MANURE

Dressing: 2 cwt. per Acre.



Packed in New Sacks.

Of ordinary rotation crops, the Turnip crop is the most costly to produce, and is, moreover, probably the most important. This being the case it is not a wise policy to use a Manure which has produced the best crops in the past, and has thus established for itself a reputation for reliability and excellence.



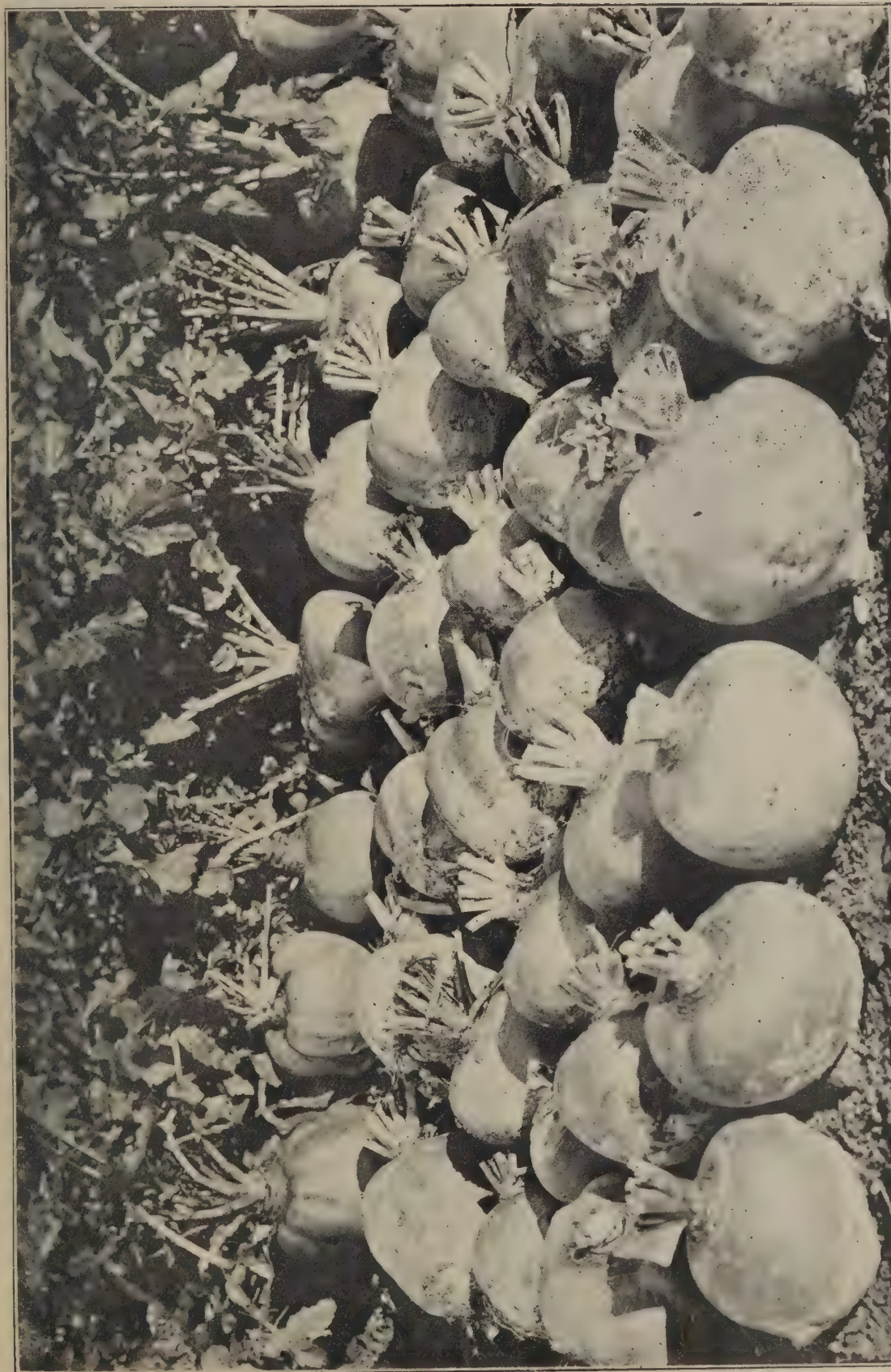
First Prize Best 5 Acres Drilled turnips, Winton A. & P. Society's Field Competition, 1907.
with 2cwt. "CHALLENGE" TURNIP MANURE.

Grown by Mr. W. A. Cox, Kauana,

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" SEEDS

"Challenge" Turnip Manure—continued.



Another View of Mr. Cox's Crop. A fair sample of the Paddock.

"CHALLENGE" TURNIP MANURE IS SLAP UP TO DATE—

WE ARE NOT CONTENT WITH PAST GLORIES—

NOR DO WE REST SATISFIED WITH PRESENT RESULTS (as shown above)—

THE EXPERIENCE OF EACH YEAR IS ADDED TO THE KNOWLEDGE OF THE PAST—

WHICH ENABLES "CHALLENGE" TURNIP MANURE NOT ONLY TO KEEP

PACE WITH THE TIMES BUT TO **LEAD THE WAY.**

PRICE—£5 10s. PER TON, EX STORE, DUNEDIN.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" MANURES

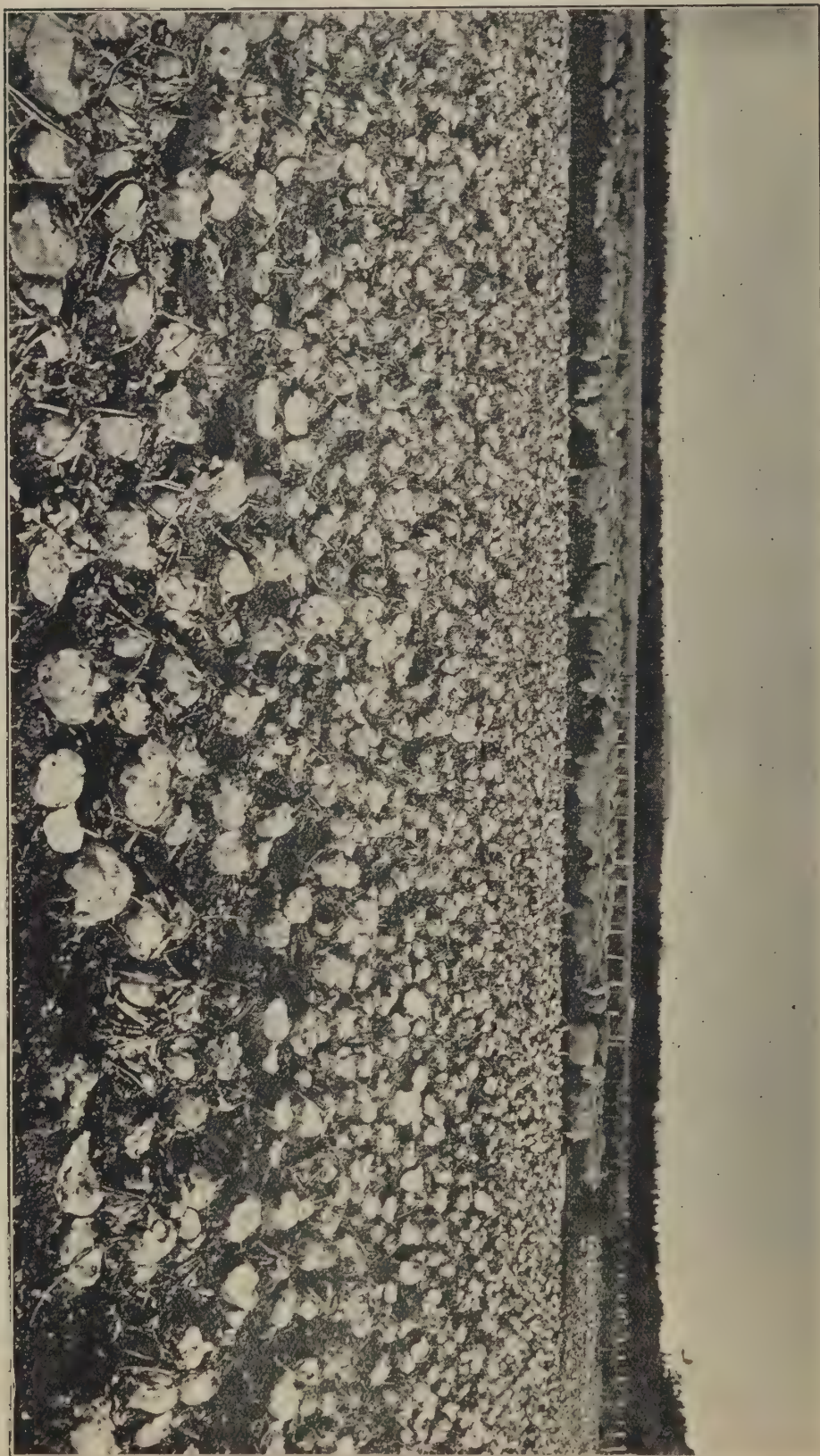
Challenge Turnip Manure

Mr. W. A. Cox won

FIRST PRIZE for Winton A. & P. Society's
Field Competition, 1907,

And used 2 cwt. Challenge Turnip Manure.

During the last three years roots grown with "CHALLENGE" Turnip Manure have secured over 200 prizes at Dunedin and Invercargill, which is proof that the Manure will do what we claim for it; namely, grow Turnips against any other brand on the market, and this coupled with the fact that the quantity sold increases every year is proof that the growers of Turnips are proving for themselves that what we say is correct.



Another View of Mr. Cox's First Prize Crop.

Gartons' Turnip Seed are the Best for Sheep Farmers.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" SEEDS

"CHALLENGE" AGAINST ALL COMERS

List of Prizes won by users of "CHALLENGE" Manures in the Otago A. & P. Societies' **FIELD COMPETITIONS.**

				FIRST	SECOND	THIRD	TOTAL AWARDS
1904	...	OUT OF 15 AWARDS	...	3	5	2	10
1905	...	" 15 "	...	4	3	1	9
1906	...	" 15 "	...	4	5	2	11

A GREAT RECORD.

List of Prizes won by users of "CHALLENGE" Manures at the Invercargill Winter Shows, 1904, 1905, 1906.

				1904	1905	1906
PURPLE-TOP SWEDES	...	...	...	2 3 4	1 4	1 3 4
GREEN-TOP SWEDES	...	...	...	1 2 3	1	2 4
SWEDES, ANY VARIETY	...	...	...	1 3	1 2	2 4
PURPLE-TOP YELLOW ABERDEEN	...	...	...	1 2 3	1 2 3 4	4
GREEN-TOP YELLOW ABERDEEN	...	...	...	1 2 3 4	No Entry	2 3
HYBRIDS	...	...	...	1 2	1 2 3	1 2 3 4
WAITE'S ECLIPSE	...	...	...	1 2 3	1 2	1 2 3 4
EARLY WHITE TURNIPS	...	...	...	1 2 3	2	2 3 4
TURNIPS, ANY VARIETY EXCEPT SWEDES	...	...	...	1 2	3 4	1 2 3
TWELVE SWEDES, NAMED	...	...	...	2 3	2 3	1 2 3
BEST COLLECTION FIELD TURNIPS	...	...	...	1 2 3	1 2 3	2 3 4
LONG RED MANGOLDS	...	...	...	1 2	1 3	1 2 3 4
ORANGE GLOBE MANGOLDS	...	...	...	1 3	3	1 2 3 4
GOLDEN TANKARD MANGOLD	...	...	...	1 3	2 3	1 2 3 4

Sold under Guaranteed Analysis as supplied to the Minister of Agriculture, "The Fertilizers Act, 1904."

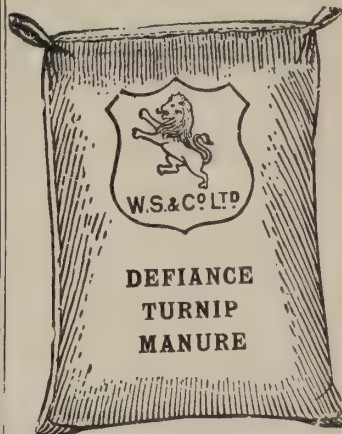
Price: £5 10s per ton, ex Store, Dunedin.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" MANURES

No. 8

DEFIANCE
TURNIP
MANURE



Packed in New Sacks.

DRESSING :
2 to 3 cwt.
per acre.

This Manure is Particularly Suitable to Heavy Soils, and to Soils that are Inclined to be Sour.

The secret of success is never to be satisfied, even with the best crop you have grown, as the best crop that has been produced in the past will be improved upon in the future.



GREEN and PURPLE-TOP SCOTCH. Grown by W. A. Young, Waianawa, with $1\frac{1}{2}$ cwt. Manure per acre.
(Photo early March)

Try "SCOFF" for the Cattle.

WRIGHT, STEPHENSON & CO LTD

"CHALLENGE" SEEDS

Defiance Turnip Manure—continued.

The feeding value is the true gauge of a crop, and this depends on the percentage of the following contained in the Root, viz. ; Ash, which forms Bone ; Proteids, which form Flesh ; and Carbon Hydrates, which form fat and keep up the heat of the body. The percentage of these solid substances vary from 3 to 12% and therefore the feeding of a crop will vary in like proportion.

The "DEFIANCE" MANURE is specially designed to meet the requirements of those who are looking for a Manure to produce roots of the highest feeding value.

This Manure is Sold under a Guaranteed Analysis as supplied to the Minister of Agriculture,
"The Fertilizers Act, 1904."

PRICE—£5 PER TON, EX STORE, DUNEDIN.



SWEDE TURNIPS 12 WEEKS' GROWTH.

Grown by R. & A. Officer, Thornbury, with 2 cwt. "Challenge" Turnip Manure.

Have you tried S. A. P. Rabbit Poison.

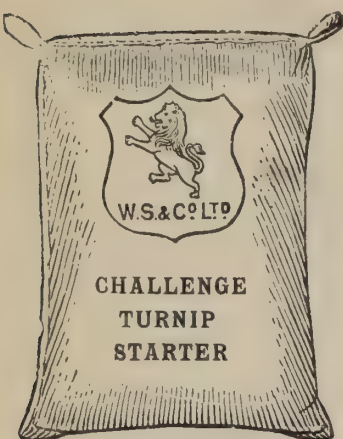
WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" SEEDS

No 9

"Challenge"

Turnip Starter



Packed in New Sacks.

Dressing: From 1 to 2 cwt. per Acre

This Manure is the direct outcome of several years of experiment, and has supplied a long felt want. There is plenty of good land that will grow a good serviceable crop of roots without Manure, provided the young turnips are given a good start. This is perhaps not the advice a Manure merchant should give, but our object is not only to sell Manure, but to supply every farmer with just what he wants.



Broadcast Crop of GARTON'S PURPLE-TOP SCOTCH. Seed per acre, 9 oz.

Grown by Messrs. Hyde & Glass, Nightcaps, with 2 cwt. Challenge Turnip Starter and Challenge Bones mixed, equal parts.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" SEEDS

The quick growth produced by the use of **Turnip Starter** is quite marvellous. The Manure is so mild and so readily dissolved that the most tender roots even of a delicate plant can find a plentiful supply of nourishing and in every way suitable plant food, and the growth therefore must be proportionately rapid.

The good results given by the Starter alone have had the effect of very greatly diminishing the quantity of Bones used in the Southland District as it has been found that

1 cwt. of Turnip Starter	-	-	cost 4s	per cwt.
1 cwt. of Bones	-	-	cost 7s 6d	per cwt.
At an Average cost of	-	-	5s 9d	per cwt.
Will give better results than all Bones costing 7s 6d per cwt.				

THIS ENABLES A SAVING OF 3s 6d PER ACRE TO BE MADE.

In animal life, special food is required for the young. Plant life is the same, and **Turnip Starter** does for the young turnip what milk does for the young animal. It is, therefore, desirable that the **Turnip Starter** alone be sown with the seed and the stronger and more lasting manure be sown below the seed, to be suitably placed for the requirements of the plant in its later stages. There is now no difficulty in sowing two different manures in this way, as JAS. MACALISTER and ALEX. STORRIE, Ltd., both of Invercargill, make Double Ridgers to sow two different kinds of Manure, one with the seed and one below the seed at the one operation.

MacAlister's Double Ridger has given a number of trials, using "**Challenge**" **Turnip Starter** with the seed and "**Challenge**" **Bones** below the seed. All these trials have given extremely good results, thus proving the principle of the two manures to be correct, and showing that the work produced by this Ridger to be both reliable and very satisfactory.



CHALLENGE SWEDES. Grown by Mr. Alex Robertson, Browns, with 2 cwt. Challenge Turnip Starter and Challenge Bones mixed.

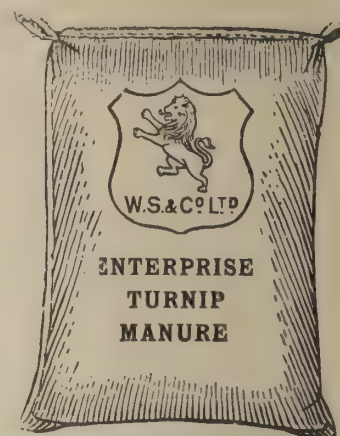
PRICE—£4 PER TON, EX STORE, DUNEDIN.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" MANURES

ENTERPRISE Turnip Manure

No 10



Packed in New Sacks.

Dressing: 2 to 3 cwt. per Acre.
SUITABLE FOR HEAVY SOILS.

This Manure is Sold under a Guaranteed Analysis as supplied to the Minister of Agriculture,
"The Fertilizers Act, 1904."

A Manure of a similar nature to the "Defiance" Brand (see page 14) containing about $\frac{1}{2}\%$ less nitrogen and therefore can be sold at 5s per ton less money.



YELLOW ABERDEENS, grown by Mr Oscar Baird, Lochiel, with 3cwt. "Challenge" Turnip Manure.
(Photo taken early March)

PRICE—£4 15s PER TON, EX STORE, DUNEDIN.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" SEEDS

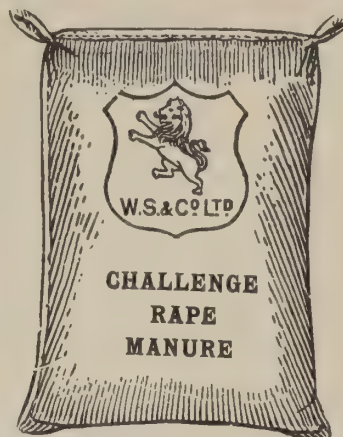
"CHALLENGE"

RAPE

No 11

MANURE

Dressing : 2 to 3 cwt. per Acre.



Packed in New Sacks.

Sold under a
Guaranteed
Analysis as
supplied to the
Minister of
Agriculture,
"The Fertilizers
Act, 1904."

To produce a really good crop of Rape, the Manure must be such as to produce a quick vigorous growth. Unless this is brought about, the first leaves are inclined to go off before the crop has reached its maximum growth. Mr. G. J. Linscott, Thornbury, writes :—"Your Rape Manure is a good workable Manure and produces an excellent crop."



140 Acres grown by McKercher Bros., Browns, with 2 cwt. Challenge Manure.

Price—£5 17s 6d per Ton, ex Store, Dunedin

Use "CHALLENGE" Garden Manure.

WRIGHT, STEPHENSON & CO. LTD. 
"CHALLENGE" MANURES

"CHALLENGE"

No 12

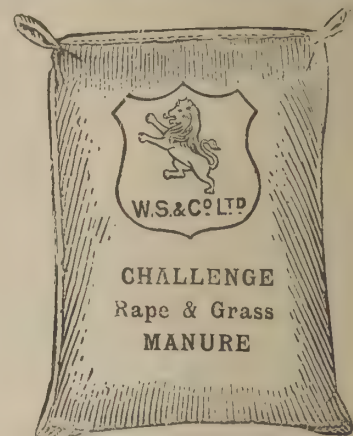
RAPE & GRASS MANURE

Dressing: 2 to 3 cwt per acre.

Sold under a Guaranteed Analysis, as supplied to the Minister of Agriculture, "The Fertilizers Act, 1904."

Where it is not desirable to give all attention to the Rape at the expense of the Grass, a suitable Manure must be looked for that will bring away both crops.

The mixed Rape and Grass seed may be broadcasted and the Manure sown on the surface at the one operation. In this way the Rape will not respond so readily to the Manure as if it were sown with the Manure, but the Grass will receive a proportional advantage.



Packed in New Sacks.



Sprinkling Manure Broadcasted on Surface.

No Manure.

The Result of a mere Sprinkling of Manure Broadcasted over the surface. Grown by W. A. Cox, Harringtons.

Price—£5 10s per Ton, ex Store, Dunedin

WRIGHT, STEPHENSON & CO. LTD.

“CHALLENGE” SEEDS

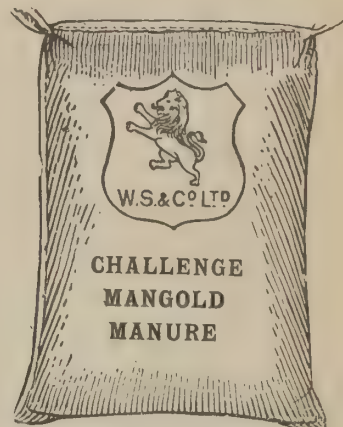
“CHALLENGE” Improved

No 13

MANGEL MANURE...

Dressing: 6 cwt. per Acre.

Price: £4 10s per ton, ex Store, Dunedin



Packed in New Sacks.

Experience is the teacher that rules the world. We live to-day on the experience of the past. Actual experiments conducted by scientific men in various parts of the world show that this Improved Mangel Manure will give better results than any previously known mixture.

The Mangel will respond more readily to suitable manure than any other root crop. The First Prize in the Masterton A. & P. Field Competition, 1907, was won by a crop weighing 126 Tons per acre grown from Gartons' Seed.

MANGELS are very Suitable for Dairy Cows, and every dairy farmer should give them a trial.



This Manure is Sold under a Guarant'd Analysis as supplied to the Minister of Agr'c'lture "The Fertilizers Act, 1904."

GARTON'S IMPROVED BREED OF LONG-RED MANGELS.

Grown by Mr. Geo. Simpson, West Plains, with "Challenge" Mangel Manure.

See GARTONS' NEW and IMPROVED BREEDS OF MANGELS.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" MANURES

"CHALLENGE"

POTATO

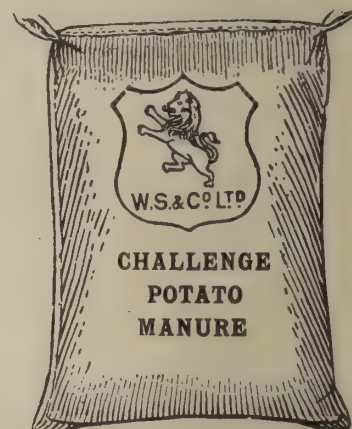
MANURE



No 14

DRESSING :

3 to
6 cwt.
per acre



Packed in New Sacks

Potatoes, like all other heavy dropping plants, are gross feeders, and consequently they must be supplied with a plentiful dressing of Manure. Many growers are in the habit of using Bones and Superphosphate and similar mixtures, with very good results, possibly, but at the expense of the land, as it is apparent to all that in a 20 ton crop of Potatoes, there is a very large quantity of Nitrogen, Phosphate of Lime, and Potash taken from the soil.



(A Good Pit 25 tons) from a little over an Acre. Grown by Thos. Staunton, West Plains, with "Challenge" Potato Manure.

With an incomplete mixture such as Bones and Superphosphate, the soil is only being enriched with Phosphate of Lime and a small quantity of Nitrogen, and every crop takes away a large quantity of Potash and Ammonia which is not returned to the soil. Our "Challenge" Potato Manure is a complete Manure and has proved itself by producing the finest crops in Otago and Southland during the last 15 years.

READ ARTICLE ON POTASH MANURING, PAGES 5-7.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" SEEDS

"Challenge" Potato Manure—continued



(Photo early March)

Grown by W. A. Cox, Harringtons, with "Challenge" Potato Manure.

Price: £6 5s per ton, ex Store, Dunedin.

SMALL QUANTITIES:

13s 6d per 2cwt. Bag, delivered, Dunedin
 7s 6d „ 1 „ „ „
 4s 6d „ 56lb. Bag, „ „

2s 6d per 28lb Bag, delivered, Dunedin
 1s 9d „ 14 „ „ „

"Challenge" Bone Meal

No 15

Price—

£7 10s per Ton,
 ex Store
 Dunedin

This is a Pure Bone Meal Ground by Ourselves.
 Its action is much more Rapid than ordinary Bone Manure.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" MANURES

Challenge Superphosphate...

No 16

... High Grade ...

DRY & FREE RUNNING.

Superphosphate is one of the most valuable Manures known, on account of the Phosphoric Acid contained therein being soluble in cold water. Its action, in consequence should be quick, although experience has taught us that other forms of Phosphates give more rapid growth on damp and heavy soils

Superphosphate is very suitable for dry sharp soils, but for heavy loams and clays the addition of Insoluble Phosphates such as Bone will give improved results.

Our Superphosphate is of best quality and we guarantee to deliver in fine dry condition free from lumps.

DRESSING :
2 CWT. PER ACRE

PRICE :

£5 10s per ton
ex store, Dunedin

No 17

Challenge Bone Manure

Highest Grade

GUARANTEED ALL LOCAL BONES.

There is no need to dwell on the merits of Bones as a Manure. We can suggest, however, that you try

1 cwt. TURNIP STARTER at 4s, and

1 cwt. BONE MANURE at 7s 3d

PRICE :

£7 5s per ton
ex store, Dunedin



Gartons' Purple-Top Scotch, Broadcast, 9 oz. per acre. Grown by Messrs Hyde & Glass. Nightcaps, with Challenge Turnip Starter and Bones, half each.

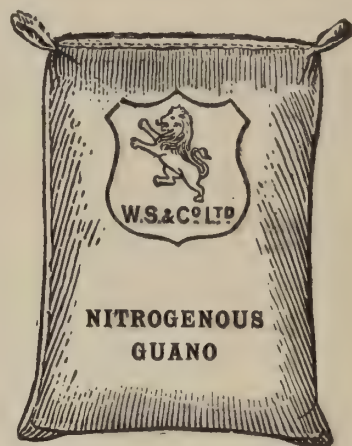
WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" SEEDS

NITROGENOUS

No 18

GUANO...



Packed in New Sacks.

Introduced by us 4 years ago as an Ideal Manure for ridgy land. The experience of those who have used it has confirmed our judgment.

Ridgy land is often deficient in organic matter, and consequently, this guano, containing a certain percentage of nitrogen, just supplies the deficiency. Sales last year, compared with the previous season, increased 100 per cent.

Sold under Guaranteed Analysis as supplied to the Minister for Agriculture,
"The Fertilizers Act, 1904."

Price: £4 15s per ton, ex Store, Dunedin.

CHESTERFIELD

GUANO

No 19

A good starter and a reliable Manure for certain districts.

Price: £4 7s 6d per ton, ex Store, Dunedin.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" MANURES



Packed in New Sacks

Lady Elliot Guano

No 20

Dressing: 2 cwt. per Acre.

A THOROUGHLY RELIABLE
TURNIP MANURE

Price: £4 7s 6d per ton, ex Store, Dunedin.



Use...
Gartons'
Turnip & Mangel Seeds

GREEN & PURPLE TOP ABERDEENS.

Grown by John Young, Waianawa, with 3 cwt Lady Elliot per acre

Coral Queen Guano

No 21

Dressing: 2 cwt. per Acre.

Price: £4 15s per ton, ex Store, Dunedin.

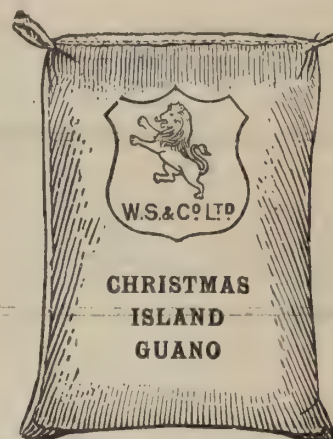
WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" SEEDS

CHRISTMAS ISLAND GUANO

No 22

HIGHEST
GRADE
GUANO
ON THE
MARKET



Packed in New Sacks.

The highest grade Guano on the market, containing from 70 to 84% Phosphate of Lime. It is a splendid Turnip grower, producing firm good quality roots.

Owing to the very high analysis of this guano, the succeeding crop receives almost as much benefit as the first. This fact is very marked when the succeeding crop is grain after Turnips, even though the ground has been ploughed the line of the turnip drill is plainly visible by an increased growth of 2 to 3 inches in the young grain.



Swedes grown by Mr H. A. Brass, Benmore, with Christmas Island Guano

When Turnips and Grass have been sown down with Christmas Island the benefit to the grass is very marked, and can be noticed into the third year.

Price : £5 5s per Ton, ex Store, Dunedin

For GROCERIES, try WRIGHT, STEPHENSON & CO.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" MANURES

NITRATE of No 23 SODA....

This Fertilizer is particularly valuable as a Top-Dressing for Grain on account of its extreme solubility. The results from the Top-Dressing of Grain when about two inches high are quite marvellous.

All Grasses, with the exception of Clovers, are greatly benefitted by a Top-Dressing in the Spring.

QUALITY :

19.4% SOLUBLE AMMONIA =
15.94% SOLUBLE NITROGEN

Price :

£16 per Ton, ex Store, Dunedin.

DIRECTIONS FOR USE :

When the ground is warm after a spell of dry weather, select a dull day when rain is expected. Take $\frac{1}{4}$ -cwt. of Nitrate of Soda per acre and mix with dry earth so as to bring the bulk up to 2 cwt., and sow broadcast. The first shower will dissolve the Nitrate and wash the solution down to the roots of the growing crop.

TWO SMALL DRESSINGS ARE MORE BENEFICIAL THAN ONE LARGE ONE.

SULPHATE of No 24 AMMONIA

QUALITY :

24% SOLUBLE AMMONIA =
19.78% SOLUBLE NITROGEN

Price :

£18 per Ton, ex Store, Dunedin.

A Soluble form of Ammonia, valuable for

GRAIN, RAPE, CABBAGE,
ETC.

Used to best advantage when sown in conjunction with the seed.

SULPHATE OF AMMONIA gives by far the best results on soils rich in Lime.

NOTE—

Do not apply Sulphate of Ammonia to land recently dressed with Burned Lime as the Ammonia will be liberated.

WRIGHT, STEPHENSON & CO. LTD.

“CHALLENGE” SEEDS

Challenge Garden Manure

No 25

For all Classes of VEGETABLES and FLOWERS. Produces a Vigorous Growth and Brilliant Colours.

Where, however, special attention is to be given to Leguminous Plants, such as Peas, Beans, Sweet Peas, &c., use

SPECIAL PEA and BEAN MANURE.

<u>Price per Bag :</u>	14 lbs.	-	2s.	...	56 lbs.	-	5s 6d.
	28 lbs.	=	3s.	...	112 lbs.	=	10s.

Special Pea & Bean Manure

No 26

THE MOST SUITABLE APPLICATION FOR ANY LEGUMINOUS CROP.

<u>Price per Bag :</u>	14 lbs.	-	2s.	...	56 lbs.	...	5s 6d
	28 lbs.	-	3s.	...	112 lbs.	...	10s.

Use GARTONS'

New Varieties and
Regenerated Stock of...

Grain and Turnip Seeds

SPECIAL MANURES.

Should any of our customers require manures for special purposes, or for special crops, we shall be pleased to give them all the information we have concerning such special treatment, and to make up a manure that will give the desired result.

We are also prepared to make up any special mixtures of BONES, GUANOS, SUPER-PHOSPHATES, POTASH MANURES, AND AMMONIACAL MANURES at Catalogue Prices.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" MANURES

Agricultural Lime...

**ORDER EARLY TO
ENSURE DELIVERY.**

WELL BURNED.

15S PER TON.

DRESSING: 2 Tons per Acre.

**Delivered to bona fide Farmers.
Railage Free.**

Lime is absolutely essential for the growth of all cultivated plants. Analysis of Southland soils and a great proportion of Otago soils, show a general deficiency of Lime. Where the land is wet and sour, drain first and lime last, and success must follow.

...Soil Analysis...

Very much may be done when the contents of the soil is known. Farmers who have difficulty in growing any particular crop should not hesitate in getting their soil analysed.

Failure to produce satisfactory results may be attributed to so many causes, that the practical man may be quite a number of years before he ascertains the reason of his failure. Whereas, if an analysis of the soil is taken at once, the reason of the failure may be ascertained at once and a suitable Manure applied without any delay.

We Undertake

**ANALYSIS FREE OF COST
for orders of 5 tons and to
recommend a suitable manure.**

Write for Particulars.

WRIGHT, STEPHENSON & CO. LTD. "CHALLENGE" MANURES

....Soil Analysis....

When taking a sample of soil it is desirable first to shave off with a spade the growing vegetable matter, then take a section of the soil, say 1 inch square and 9 inches deep, in, say two or three different parts of the paddock, and mix these samples thoroughly together. Take a small mustard or pepper tin and after thoroughly cleansing same, fill with soil, and address to Wright, Stephenson & Co., Ltd., as under—

To <u>Soil for Analysis</u>		4 oz. one Penny.
Messrs Wright Stephenson & Co. Dunedin.		Limited
From (name & address.)		



Lincoln Red Globe Turnip. Grown by Malcolm Bros., Bayswater, with 2 cwt. Manure per Acre.

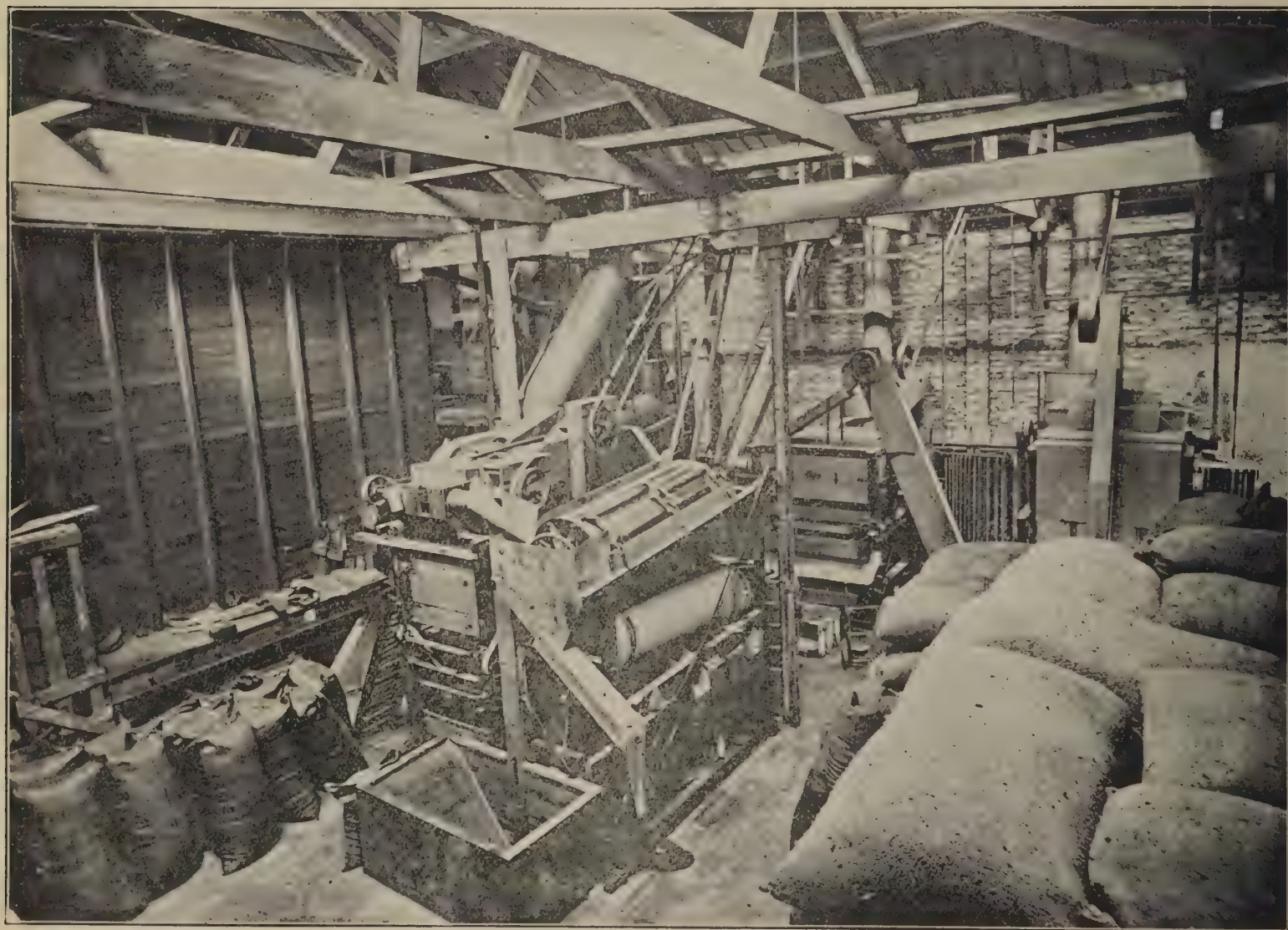
(Photo early March)

FINISHING OFF 4500 FREEZERS.



“Challenge” Seeds

Our business in this branch has increased greatly during the last five years. To keep up-to-date we are still making additions to our Seed and Grain Cleaning Plant. We are now in a position to clean, on owners' account at lowest current prices, any and every description of Grain, Grasses and Clovers.



VIEW OF OUR SEED-CLEANING PLANT.

TERMS OF SALE: On Manures and Agricultural Seeds — $2\frac{1}{2}\%$ discount for cash within one month, or three months free of interest.

On Vegetable and Flower Seeds — The value of which, at List Price, amounts to 20s., we allow 5% (or 1s in the £) for cash with order, or $2\frac{1}{2}\%$ for cash within a month, or three months free of interest.

DELIVERY: All Manures and Agricultural Seeds are delivered on to trucks at our store. Vegetable and Flower Seeds (except Peas and Beans) are delivered by parcel post, free.

ORDER SHEET: Our Customers will be considering us if they will kindly use Order Sheet attached at end of Catalogue, which will also tend to minimise mistakes.

TERMS & CONDITIONS OF SALE: Wright, Stephenson & Co., Ltd., give no warranty expressed or implied, as to the description, quality, productiveness or any other matter of any Seeds they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned, carriage prepaid. Wright, Stephenson & Co., Ltd., will take it for granted that all who order Seeds from them do so with a full knowledge of the preceding.

..... **CORRESPONDENCE** Pertaining to Seed or Manures Invited.....

NOTE — Owing to the continual fluctuation in the Prices of Seeds we do not bind ourselves to deliver at Prices Quoted, but provided stocks are available will do so at Market Rates at the time.

GRASS SEED.

Perennial Ryegrass (*Lolium Perenne*)—

There are two well-known varieties, viz. :—Ordinary Perennial and Pacey's Evergreen, and several selections. These selections, however, have no permanent characteristics of their own, but take after the type of the district in which they are grown. On suitable soils it is a permanent grass but only lasts a few years on unsuitable land. Good loams, tenacious soils, and even stiff clays are suitable for its best development and longevity, always provided the soil has good drainage. Light thin and gravelly soils are least suitable as its roots are surface feeders. Top dressing of nitrate of soda will give marked results. Its most important characteristic is that it will grow under conditions that are fatal to other grasses; it is the most certain to germinate; it grows quickly; is uninjured by the tread of stock even on unsuitable land. Five to fifteen pounds of Ryegrass should be included in a mixture. It will grow and cover the ground rapidly and thus keep down weeds, will protect the more delicate germinating and slow maturing grasses, and make way for them as they become established. From analysis, contrary to the general rule, ripe Ryegrass straw left after threshing makes better fodder when chaffed than hay from the green straw.

PRICES, Per Bushel—

1	Poverty Bay Seed, very choice	...	Market Rates
2	Canterbury Seed, extra choice	...	6s to 6s 6d
3	Extra Choice, extra heavy first-grade seed	...	6s to 6s 6d
4	Choice, selected first-grade seed	...	5s 9d to 6s
5	Good Machine Dressed	...	5s 3d to 5s 9d
6	Farmers' Dressed	...	4s to 5s

NOTE.—We will give a Written Guarantee that the above seeds are all N.Z. grown.

Italian Ryegrass (*Lolium Italicum*)—

On warm, rich, damp soils it will produce an enormous amount of most succulent, nutritious feed, which is greatly appreciated by cattle. It promotes a great flow of milk and improves the flavour of butter and cheese. It is extremely hardy, comes away very early in spring, and grows late in autumn. On the best and most suitable soil it is only a short-lived grass, its life being from 2 to 5 or 6 years; on medium and light soils it produces a great quantity of feed the first and possibly the second year. Unlike the Perennial, it smothered out all finer grasses, is a gross feeder, and probably takes more out of the soil than any other grass. Good seed has a very high germination and grows very quickly. It may be sown down with rape but not with turnips, as its rapid growth will smother the young turnip. There are two distinct strains, viz. : The Giant and the Ordinary. Of all cultivated grasses the Giant Italian produces by far and away the greatest quantity of splendid quality herbage, and next it comes the Ordinary Italian. Seeding from two to three bushels per acre.

PRICES, Per Bushel—

7	Sutton's Giant, rare imported seed	...	10s
8	Heavy Machine Dressed	...	5s to 6s
9	Farmers' Dressed	...	4s to 5s

PERENNIAL
RYEGRASS.

ITALIAN
RYEGRASS.

Pacey's Evergreen Ryegrass—

A distinct variety of Ryegrass producing a greater abundance of leafy herbage than the ordinary Perennial strain. Comes away a full month earlier in spring, and grows late in autumn.

PRICE—

- 10 Selected Machine Dressed
Market Rates

Crested Dogstail (*Cynosurus Cristatus*)—

This is essentially a sheep grass, and is probably the most greedily eaten of all grasses. Sheep are so fond of it that they will pass by all other grasses, and will eat it down so close that there would be a danger of exterminating the plant but for the fact that the seed-stalks soon become hard, and are then rejected by animals. Owing to this fact a Dogstail pasture may be grazed by sheep almost up to the time of seeding, and then stripped or cut. Combined with fescues and other fine grasses it composes the best upland sheep pastures in Britain. It is also supposed to exercise a beneficial influence on sheep in the prevention of foot rot. It is extremely hardy and will flourish on light and good soil alike. It is undoubtedly a perennial, and moreover, owing to its strong hard seed-stalk, it will seed itself every year. The root stock is perennial and stoloniferous. Seeding, for mixture, 2 to 5 lbs.; if alone, 20 to 30 lbs.

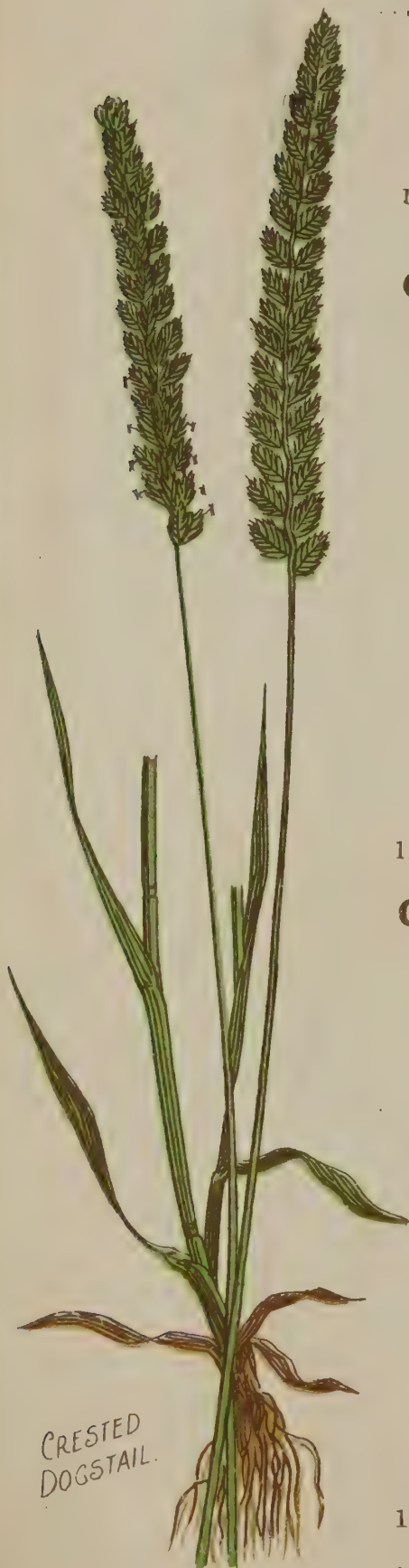
- 11 PRICE 1s to 1s 6d per lb.

Cocksfoot (*Dactylis Glomerata*)

Although it is widely used for surface sowing, its proper place is good strong soil on the flat, where it will produce an enormous amount of leafy herbage of good quality. On such lands the seed-stalks do not change so quickly to woody fibre as on a drier soil, and thus its feeding value is maintained for a longer period. Analysis shows that in spring one-tenth of the total weight of the grass consists of nutritive matter, whereas at midsummer the proportion is one to thirty. For haying, therefore, Cocksfoot is of small value—it will produce plenty of bulk, but only poor quality. Like Ryegrass, on suitable soils it is permanent but can be, generally speaking, considered to hold better to the ground than Ryegrass, probably due to the fact that it has a fibrous, much-branched, deeply-descending root. It is, therefore, able to withstand drought, provided it has a sufficiently deep soil. The flower heads are extremely liable to ergot. Seeding, for mixture, 5 to 20 lbs.; alone, 30 to 40 lbs.

PRICE per lb.—

- 12 Machine Dressed, extra heavy, very bright ... 6d to 7d per lb
13 Machine Dressed, bright 5d to 6d „
14 Farmers' Dressed 4d to 5d „



Timothy (*Phleum Pratense*)

An extremely hardy grass, and on suitable soils will stand great extremes of heat and cold; on heavy loam and clays, it produces abundant herbage, and is specially valuable on peaty soils; on sandy and dry gravelly soils it is of little value. Good seed gives a high germination, grows rapidly and comes to maturity the year after it is sown. It is a perennial and fibrous-rooted, but on poor light soils it soon becomes bulbous-rooted. The nutritive value of Timothy straw is good but owing to its wiry nature it would require to be cut into chaff. Permanent seedings for heavy soil should always contain a few pounds of Timothy—when sown alone, about 20 lbs. per acre. The seed bed should be rolled first to prevent any seed from falling between the small lumps of earth, and thus getting buried.

PRICE—

15	Choice Colonial	...	... 5d to 7d per lb
16	Choice Imported	...	.. 3½d to 6d per lb

Meadow Foxtail (*Alopecurus Pratensis*)—

In order of merit, for quality and quantity, this may be placed first. The percentage of digestible fibre has been estimated at from 14 to 15 per cent., and this is only beaten by four varieties of cultivated grasses, viz., Various-leaved Fescue, Sheep's Fescue, Rough-stalked Meadow Grass, and Evergreen Meadow Grass, which average from 16½ to 18½ per cent. When, however, the great bulk of succulent leafy herbage produced by the Foxtail is compared with that produced by the grasses just named, the prize for quality and quantity must go to this species. Late spring frosts apparently do not injure this grass, and in fact, there is scarcely a forage plant known which will endure the cold so well. For early growth Foxtail shares with Sweet Vernal the distinction of being the earliest flowering of all useful grasses. On very dry light soil Foxtail is so stunted and small as to appear of little value, but on strong well-drained loams and clays it flourishes exceedingly well. It requires, however, owing to the light and delicate formation of the seed, a very carefully prepared seed-bed and this on heavy clay land is most difficult to make. Good seed should show a germination of from 70 per cent., but unfortunately, owing to the practice of cutting this grass on the green side, this percentage is not always available. It is thoroughly perennial in character, but does not attain to full development until three years after sowing. It is, therefore, less suited than Cocksfoot for, say, three year pastures, although it is more nutritious than that grass. The root stock is perennial, with strong fibrous roots. Seeding for mixtures, 1 to 10 lbs.; alone, 25 to 30 lbs.

17	PRICE	...	... 1s to 2s per lb
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TIMOTHY.

MEADOW
FOXTAIL.

Sweet Vernal (*Anthroxanthum Odoratum*)—

Takes its name from the sweet scent it imparts to the hay crop. Together with Foxtail this grass has the honour of being first to show up in the spring, but it never constitutes more than an insignificant portion of the pasture. Although well adapted to deep, rich, moist soils, it thrives under the shade of trees, accommodates itself remarkably well to irrigation, and strange to say, this grass is equally at home on light, thin soil and exposed hilly country; also on sandy wastes near the sea on which no other grass will grow. It is a true perennial, with fibrous roots, and extremely hardy, and will grow at an elevation of 4,000 feet. Seeding, for mixtures for permanent pastures, $\frac{1}{2}$ lb per acre.

18 PRICE 1s to 1s 6d per lb

Yellow Oat Grass (*Avena Flavescens*)—

Is a valuable species, both for forage and hay, and is greedily taken by cattle. It flourishes on well-limed light soil, rich in vegetable matter, and makes its most vigorous growth in the latter end of the season. The true *Avena Flavescens* is very scarce, and therefore, very expensive. The seed resembles closely that objectionable weed — the Wavy Hair Grass. The germinating power of even the best saved seed is always very poor. When established it produces valuable herbage and plenty of bulk, and is capable of holding its own without the aid of manure. The root stock is perennial, creeping and somewhat stoloniferous. Seeding, in mixtures for permanent pasture, half to 2 lbs. per acre.

19 PRICE 2s to 3s per lb

Tall Oat Grass

A warmish climate is necessary to develop its full growth, on which it produces an immense amount of herbage, fully equal in bulk to Italian the first year. At first, cattle do not take readily to this grass, owing to its somewhat bitter taste. It is not, strictly speaking, a perennial, but would probably last as long as Ryegrass in medium soils; comes away early in spring, and will grow on almost any class of land at a moderately low elevation, except very thin soils. Good seed germinates well, and comes to full growth the following season when sown in autumn, which is not the case with spring sown seed. The roots are fibrous, and penetrate to a considerable depth, thus enabling the plant to withstand cold and drought. This plant must not be confounded with the Wild Oat, which it in no way resembles. Seeding, for mixture, from 2 lbs. up to one quarter of total seeding.

20 PRICE 1s to 1s 6d per lb



Meadow Fescue (*Festuca Pratensis*)—

In appearance and habits, Meadow Fescue resembles Perennial Ryegrass. No one but an expert can distinguish the seed, and for this reason the seed of Ryegrass is often substituted. If the growing grass be examined carefully, the Fescue will be found to produce a greater proportion of succulent leaf and the seed stalks fewer than the Ryegrass. In quality the Fescue is superior, and is greedily eaten by stock of all sorts. When sown together with Cocksfoot, it will be found that the Fescue will be closely eaten down, while the Cocksfoot is allowed to grow in great tufts and go to seed. Its main growth is from early summer on to autumn, and it flourishes in well-drained strong deep soil at a low elevation, and comes to full maturity at from 2 to 3 years. The root stock is perennial and creeping. Seeding, in mixtures, 4 to 10 lbs.; alone, 40 lbs. per acre.

21 PRICE—True Seed 10d to 1s per lb

Tall Fescue (*Festuca Elatior*)—

Can be described as a tall coarse grass, with stem 4 to 5 feet high, and leaves 1 to 2 feet long by an inch broad. Indigenous to Britain and found exclusively in wet marshy places and tidal marshes. The worst feature of this grass is its liability to be affected with the disease called ergot; its seed is consequently often infertile. Moreover, breeding stock grazed on grass which is badly affected with ergot will suffer from abortion, while store stock will become affected with ergot poisoning, which produces mortification of the extremities and causes their hoofs to fall off, etc. The root stock is perennial and stoloniferous. Seeding, for mixture, from 2 to 5 lbs.

22 PRICE ... 1s 6d to 2s 4d per lb



MEADOW
FESCUE.



TALL FESCUE.



Chewings' Fescue—

A variety of Fescue brought into prominence by Mr. George Chewings, of Mossburn. It is supposed to be a species of Hard Fescue, and to have taken unto itself special characteristics from its new environment. For shingly soils and light land, or at a considerable elevation, it is extremely useful as it will produce good sheep pasture of a thoroughly permanent nature where other grasses will not hold. A few pounds per acre mixed with a seeding for low-lying land of good quality will produce a good sward, and give substance to the pasture, where the other varieties are inclined to be too watery. When sown alone it produces a close turf, with a considerable quantity of herbage, and comes to maturity in 2 or 3 years. The root stock is perennial.

23 PRICE 6d to 9d per lb

Hard Fescue (*Festuca Duriuscula*)—

So named owing to the fact that the spikelets become hard as they ripen. Especially suitable for hard soils and hill pastures, on which, in conjunction with Poas and other Fescues, form a close sward. Is found in nearly all the best permanent hill pastures in Britain, commences its growth early in spring, and the herbage produced is very nutritious. On good soil this variety produces quite a large bulk of herbage, but on those where a pasture of short duration is required it is not always a desirable grass, as it is sometimes, and, on some lands, difficult to eradicate. The root stock is perennial and slightly creeping. Seeding for mixture, 2 to 4 lbs.

24 PRICE 6d to 1s per lb

Sheep's Fescue (*Festuca Ovina*)—

Is the smallest of all the Fescues, and, in fact, the smallest grass cultivated for agricultural purposes. It is essentially a hill grass and quite unsuited for sowing in low-lying fertile land, as the strong growing grasses will smother it. It may be sown with other hard grasses on poor light soils up to 5000 feet elevation, and produces abundance of very narrow dark green leaves, growing in small tufts, with angular seed stalks. Although the herbage appears wiry, it is nevertheless succulent and of good quality, the percentage of digestible fibre ranging from 16 to 17 per cent. When established on such soils it will hold its own, as it propagates itself largely by its roots. Two or three years are necessary for its full development. Seeding for mixture, in poor soils only, from 2 lbs to half the total seeding, according to quality.

25 PRICE 1s to 1s 4d per lb

Red Fescue (*Festuca Rubra*)—

Derives its name from the colour of the sheath of the lower leaves, which are a dull red colour. The seed is larger than the Hard Fescue, and is more robust, with strong creeping roots, which help it to withstand drought; more specially suitable to dry, light, poor soils at low elevation. The herbage is nutritious and forms a close sward, and is readily eaten by all kinds of stock. It attains full development in two years, and its duration is limited to 10 years.

26 PRICE 1s per lb

Rough-Stalked Meadow Grass

(*Poa Trivialis*)—

May be distinguished from *Poa Pratensis* by its narrow leaf and rough stalk. This roughness is only noticed when the grass is drawn across the tongue. It thrives best on good moist soils, and will grow in gullies and valleys at an elevation of 3000 feet, provided the rainfall is plentiful. The quality of the herbage is very good, the percentage of the digestible fibre being from 18 to 19 per cent. Spring frosts must be all away before it makes any growth, and the first of the autumn frosts will cut it down. The root stock is perennial and slightly creeping but not stoloniferous.

27 PRICE 2s to 2s 4d per lb.

Wood or Evergreen Meadow Grass

(*Poa Nemoralis*)—

Is the least common of all the Poas and consequently the most costly. Yields a considerable bulk of good quality herbage, is most suitable for sowing under the shade of trees, comes early in spring, and will suit dry situations. The root stock is perennial and slightly creeping, but not stoloniferous.

28 PRICE 1s 9d to 2s per lb

ROUGH-STALKED
MEADOW GRASS.

WOOD or EVERGREEN
MEADOW GRASS

Smooth-Stalked Meadow Grass

(*Poa Pratensis*)—

Known in the United States as Kentucky Blue Grass, where it is cultivated with wonderful success and greatly prized, in fact, where this grass has taken possession the land is greatly enhanced in value. Owing to its strong creeping and stoloniferous roots it is not suitable to our temporary pastures in New Zealand as it is very difficult to get rid of. It is a surface feeder and thrives best on good dryish soils. Very light dry soils must be rich in humus to ensure success. It may be distinguished from the rough-stalked variety in having a broader leaf and a perfectly smooth stem, comes very early in spring and is little affected by frost, remains green all the winter, and if the weather is not severe will grow all the year round. Does not flower the first year, and forms a close thick sward. The root stock is perennial, creeping and stoloniferous.

29 PRICE 1s to 1s 3d per lb.

Yarrow or Milfoil (*Achillea Millefolium*)

Cannot be considered a grass proper nor is it a clover. Sheep are, however, very fond of it and will keep it down so close that it will be hardly noticeable. It will grow on very dry gravelly and light sandy soil that will hardly support any other vegetation, and withstands drought well. Owing to its very creeping and stoloniferous roots, on which it depends almost entirely to reproduce itself, it should never be sown with a mixture for temporary pasture, except in very small quantities, and then for a special purpose. The root stock is perennial, creeping extensively, and stoloniferous.

31 PRICE 7s 6d per lb.

Prairie Grass (*Bromus Unioides*)—

Produces a great quantity of rather coarse herbage, but very sweet and readily eaten by stock, especially horses. When sown alone it grows great crops, which can be cut several times in one season. Its roots are surface feeders, and to produce its full development requires good soil. It is a difficult grass to sow in a mixture owing to the largeness of the seed, which is apt to block a broadcast seeder. Seeding, if alone, 60 lbs.

32 PRICE 4s 9d to 5s 9d per bushel



Awnless Brome Grass (*Bromus Inermis*)—

An extremely useful grass, producing a great bulk of herbage. Comes early in spring and grows rapidly. The herbage is of first quality and greatly appreciated by stock, which take it in preference to Italian Ryegrass. In point of bulk of herbage this *Bromus* can beat the Italian.

33 PRICE 1s per lb.

Sheep's Parsley (*Petroselinum Sativum*)

Is very useful on sheep pastures. Produces a considerable quantity of very succulent feed. Contains medical properties which are said to prevent liver rot and red water in sheep. The seed is very slow in germinating, generally taking about six weeks. Seeding, for mixture, 1 lb. per acre.

34 PRICE 6d to 8d per lb

Fiorin or Creeping Bent (*Agrostis Stolonifera*)

A stout, broad-leaved grass, which thrives on spongy, damp, sour land. In wet seasons it produces a considerable quantity of feed of poor quality. Comes early in spring and grows late in autumn. In pastures of a temporary nature it should never be included, as it not only has the power of rooting from any and each joint in the stem that may touch the ground, but throws out long stolens from the root stock, which creep along and form new plants at each joint. Seeding, for mixture, 1 to 2 lbs.; if alone, 25 lbs.

35 PRICE 9d to 1s per lb

Rib Grass or Plantain (*Plantago Lanciolata*)—

Has not much to recommend it. Grows broad, flat leaves, which lie close to the ground. The seed-stalk is ribbed. Seeding, in mixture, ½ lb. per acre.

36 PRICE 4d to 6d per lb

Danthonia—New Zealand Oat Grass (*Semi Annularis*)

A valuable perennial native grass, adapted to dry upland pastures. On good soil, at low elevation, it produces a considerable bulk of good quality very fattening herbage. Before the introduction of English grasses, this species formed a prominent part of the best grazing country, and was known by settlers to be very fattening. Repeated burnings and rabbits have almost destroyed this grass. The varieties of this species, which are very numerous, all grow early in spring, and produce good feed when it is most wanted.

37 PRICE 1s 3d to 1s 6d per lb

Paspalum Dilatatum—

A valuable grass on account of the enormous quantity of herbage it produces, which attains a height of 5 to 6 feet. Withstands drought well, and is little affected by frost. Cattle show a great liking for this grass. Seed requires from 3 to 4 weeks to germinate. When once it takes to the land it is somewhat difficult to get rid of.

38 PRICE 2s 6d per lb

Sheep's Burnet (*Poterium Sanguisorba*)

Cannot properly be called a grass but rather a herb. Up to the present it has not been considered suitable for grazing purposes. Its roots are strong and deep-growing and will penetrate a hard pan, thus opening up the subsoil and assisting the root-growth of other adjacent grasses. A dry poor calcareous soil is most suitable to its best development and potash manure produces best results. A peculiarity of the seed is that unless sown in the autumn at its ordinary time of ripening it will often fail entirely or lie in the ground until the same season the following year. Seeding, in a mixture, 4 to 8 lbs.

39 PRICE 2s per lb

Chicory or Succory (*Chicorium Intybus*)

A perennial, growing to height of 3 feet or more, and bearing heads of handsome blue flowers which are given off the stems in pairs. It is cultivated to a moderate extent for sheep feed, of which it produces a great quantity. Outside the value of its herbage, it is extremely useful in a pasture as a deep-rooted grass, and will withstand drought well. If sown too thick it may be difficult to get rid of. Seeding, for mixture, 1 to 3 lbs. per acre.

40 PRICE 2s 6d per lb

For GARDEN LAWNS, TENNIS LAWNS,
BOWLING GREENS, Etc., Etc.

Lawn Grass Seed

COMPOSED OF THE FINEST EVERGREEN
DWARF GROWING VARIETIES.

SOW AT THE RATE OF 80 lbs. PER ACRE.

When making a lawn it is necessary to bear in mind that the ground is to be put down in grass for many years, it is therefore desirable to work the ground thoroughly. It often happens that the piece of ground is an old grass patch in which the grass has completely run out, and weeds taken its place. If such be the case take a crop of Potatoes off the ground, and at the same time keep down all weeds, which will not only be profitable, but will thoroughly work the ground. If the Potatoes are early sorts, the ground may be sown down the same autumn. Make the seed bed thoroughly firm before sowing and roll well after. Old lawns where the grass is thin may be revived with a surface sowing at a rate of 50 lbs per acre, raked in with a fine rake and well rolled. To make a really good lawn you must keep it regularly cut, rolled and weeded.

Prices: 1s 6d, 1s 3d, 1s per lb.

If you want a good Sole of Grass
Use "Challenge" Manure and Seeds.

CLOVERS

White or Dutch Clover (*Trifolium Repens*)—

Grows readily on all classes of soils that contain sufficient lime, provided they are not water-logged. The stems are solid and creeping, taking root at the nodes, and will therefore, soon establish themselves in a pasture if the soil is suitable. It is also possessed of a long tap root by which it will sustain itself during spells of very dry weather. Nitrogenous manure instead of increasing its growth, diminishes the same. Mineral manure, especially potash, produces good results. Seeding, for mixture, 1 to 3 lbs.

41 PRICE ... 9d to 1s 4d per lb

Red or Broad Clover (*Trifolium Pratense*)—

A very abundant cropper, more particularly suitable for cutting. Its life duration is two years, and is therefore unsuitable for pastures which are intended to remain down several years. For a two years' pasture it is very valuable, as it not only produces abundantly, but makes great root growth, and is a splendid preparation for wheat. Roots, fibrous; stems, hollow and branching from the base, and clothed with fine hairs. Seeding, 2 to 6 lbs.

42 PRICE ... 8d to 1s per lb

Cowgrass (*Trifolium Pratense Perenne*)—

A variety of Red Clover which is slower in arriving at maturity, and is possessed of more lasting character—is therefore well adapted for long duration pastures. It is not possible to distinguish the seed of this variety from Red Clover. The plant may be distinguished by its solid stem, and the leaf is longer and narrower than that of the Red Clover. A good sample should be free of brown seeds. Perennial; root, long and tapering; stem, solid and erect. Seeding, 2 to 6 lbs.

PRICE—

43 Colonial and Imported ... 8d to 1s 1d per lb

Alsike Clover (*Trifolium Hybridum*)—

Well suited for heavy soils, in which it is very lasting, and produces abundant feed. On such soils it is superior to White Clover. On light soils, on account of its roots being surface feeders, it is not very lasting, and is easily burned up in a dry hot summer. Seeding per acre, in mixture, 1 to 3 lbs.

44 PRICE ... 9d to 1s per lb

Crimson Clover (*Trifolium Incarnatum*)—

A vigorous growing annual, easily recognised by its dark crimson flowers. Very useful as a catch crop, the seed being merely harrowed in after a grain crop, and fed off the following spring and early summer, after which the ground can be ploughed for turnips. Seeding for catch crop, 14 lbs. per acre.

45 PRICE ... 6d per lb

Yellow Suckling Clover (*Trifolium Minus*)—

A small yellow-flowering annual plant, forms a close herbage on strong land, seeding itself down every year.

46 PRICE ... 4d to 6d per lb

Kidney Vetch—

A very useful plant for poor sandy soil, grows rapidly, with deep roots, and produces very nutritious herbage, with conspicuous yellow flowers. Seeding, with mixture of other grasses, 2 to 3 lbs.

47 PRICE ... 2s per lb

Trefoil (*Medicago Lupulino*)—

Will grow on almost any soil, provided there is a sufficiency of lime, comes early in spring and will give a bite before other clovers are visible. Only lives one or two years, but owing to its power of seeding itself, it is enabled to hold its place in a pasture of fairly long duration. Seeding, with mixture, 1 lb. per acre.

PRICES—

48 Giant Birdsfoot Trefoil true ... 1s 9d per lb

49 English Choice Selected ... 6d

Lucerne (*Medicago Sativa*)—

Is most particularly valuable in a dry climate with a small rainfall. Its roots, which penetrate to a great depth, enable the plant to remain green when everything else is burned up. On suitable soil, with a good free subsoil, will stand for a number of years and produce a great abundance of herbage. Several crops of hay may be cut each summer. Seeding, for mixture, 2 lbs. per acre; alone, broadcast, 14 lbs.

50 PRICE ... 10d to 1s 3d per lb

Sainfoin (*Onobrychis Sativa*)—

Of two varieties, viz., the Common and the Giant Double Cut. The former is the more durable of the two, but the latter produces a greater quantity of fodder. For haying purposes, Sainfoin is superior to Red Clover and makes a splendid preparation for wheat. It makes excellent sheep pasture, and may remain down from 3 to 7 years. Can be sown either by itself or with a mixture, the latter preferable. Thrives on dry, light, calcareous soils. Deep-rooted, and will withstand drought. Seeding, with mixture, 2 to 4 lbs.; if alone, 20 lbs.

PRICES—

51 Giant Double Cut ... 10d per lb

52 Common Selected ... 10d per lb

WRIGHT, STEPHENSON & CO. LTD.

CHALLENGE SEEDS

GRASS SEED MIXTURES.

FOR 1 YEARS' PASTURE.

	Light Soil. lbs.	Medium Soil. lbs.	Heavy Soil. lbs.
Italian Ryegrass (Giant)	36	38	40
Red Clovers	5	6	6
	41	44	46

Suitable only for fattening cattle for which purpose it cannot be surpassed. May be sown down with Rape. The growth of the Giant Italian is so rapid that if sown with grain the grass will seed the first year with the grain and thus spoil the grass the following year. If sown with Turnips the bulbs will be completely smothered and come to nothing.

FOR 2 YEARS' PASTURE.

	Light Soil. lbs.	Medium Soil. lbs.	Heavy Soil. lbs.
Italian (Giant)	10	8	8
Italian (Ordinary)	10	10	8
Perennial Ryegrass	15	17	20
Cowgrass	2	2	1
Red Clover	2	2	2
White Clover	1	1	1
Alsike	—	1	2
	40	41	42

Suitable for Cattle and Sheep. May be sown with Rape.

FOR 4 YEARS' PASTURE.

	Light Soil. lbs.	Medium Soil. lbs.	Heavy Soil. lbs.
Perennial Ryegrass	25	23	20
Cocksfoot	3	4	4
Meadow Fescue	2	1	1
Meadow Foxtail	1	2	2
Crested Dogstail	2	1	1
Timothy	—	1	3
Wood Meadow Grass	2	1	—
Rough Stalked Meadow Grass	—	1	2
Cowgrass	3	2	2
Alsike	—	1	2
White Clover	2	1	1
Birdstail Trefoil	2	2	2
	42	40	40

May be sown with Grain Crop, but for preference with soft Turnips eaten off early.

FOR 6 to 10 YEARS' PASTURE.

	Light Soil. lbs.	Medium Soil. lbs.	Heavy Soil. lbs.
Ryegrass	6	10	10
Cocksfoot	6	8	10
Timothy	2	3	4
Meadow Foxtail	2	3	4
Meadow Fescue	4	5	6
Hard Fescue	3	1	1
Crested Dogstail	2	1	1
Wood Meadow Grass	3	1	—
Rough Stalked Meadow Grass	1	2	3
Yellow Oat Grass	1	2	1
Lucerne	4	2	—
Cowgrass	3	2	2
White Clover	3	2	2
Alsike	—	1	2
	40	43	46

For poor, light, unprofitable land, to remain in grass.

Cocksfoot	6 lbs.	Burnet	6 lbs.
Timothy	2 „	Chicory	3 „
Meadow Fescue	3 „	Sweet Vernal	1 „
Sheep's Fescue	2 „	Crested Dogstail	4 „
Chewings' Fescue	6 „	White Clover	3 „
Smooth Stalked	—	Trefoil	2 „
Meadow Grass	2 „		—
Kidney Vetch	3 „		per acre 43 lbs.

NOTE.—This Mixture comprising as it does a large proportion of deep-rooted and drought-resisting grasses is specially well adapted for poor hill land of a dry nature.

For sour, wet, peaty soils, to be kept in grass.

Fiorin	3 lbs.	Perennial Ryegrass	8 lbs.
Meadow Foxtail	1 „	White Clover	2 „
Tall Fescue	3 „	Alsike	4 „
Meadow Fescue	2 „		—
Cocksfoot	4 „		35 lbs.
Timothy	8 „		per acre

For very light, sandy (useless) soil, to be kept in pasture.

Milfoil	5 lbs.	Chicory	4 lbs.
Red Fescue	5 „	Kidney Vetch	2 „
Sweet Vernal	5 „	Lucerne	8 „
Smooth Stalked	—		—
Meadow Grass	5 „		40 lbs.
Burnet	6 „		per acre

NOTE.—Sow if possible just before a long spell of wet weather, otherwise owing to the dry nature of the soil the grass will probably wither before properly rooting.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" MANURES

Double the Value of Your Poor Thin Soil!!

You can do it merely by Selecting Suitable Grasses!

You Cannot Prevent the Drought!!

But you can grow Good Crops and Good Grass in the Driest Season

(AFTER READING THE FOLLOWING)—

Scotland has given us many good men and taught the world many good things; by no means the last of which is MR. R. H. ELLIOT (of Clifton Park, Roxburghshire) and his System of Grass Growing.

Mr. Elliot is an extensive landowner and farms a considerable area of his own land in that county. His knowledge of agricultural pursuits is very wide, he having had large experience in Scotland and abroad.

When engaged in coffee planting in Mysore, India, Mr. Elliot observed, that on newly cleared forest lands, the young coffee plants flourished exceedingly well, but, in course of time when the vegetable matter from the decaying rootlets had disappeared, the coffee plants could not be successfully grown without much cattle manure or the aid of virgin top soil taken from the adjacent forest lands, and so it is with much of the land in this colony.

The secret of Mr. Elliot's success is in the employment of a large variety of deep-rooted grasses such as Cocksfoot, Foxtail, Meadow and Tall Fescues, Timothy, together with the strong-rooted Chicory, Burnet, Kidney Vetch, Yarrow, etc.

Experiments conducted by Mr. Elliot over a long term of years have conclusively proved the following:—

- (1) That poor thin soil, even at a considerable elevation, may be made to grow grass and other crops that will compare favourably with the crops produced by rich alluvial flats.

This is brought about by the liberal use of deep-rooted grasses which produce not only an abundance of feed but will increase the amount of vegetable matter within the soil, in the shape of roots and root fibres, which till and aerate the soil and store up vegetable matter, which decomposes and forms a rich mould. This is the very constituent which is deficient in the poor thin soil, and the *value of the land may very quickly be doubled* by an intelligent system of grass culture.

- (2) Land cultivated on Mr. Elliot's principle will produce abundant crops of Grain and Grass even during long periods of drought.

The strong rooted grasses and herbs push their roots to great depths, and are therefore independent of surface moisture. Where the subsoil is of a free nature, their roots will descend incredible depth in search of water, and the plant will flourish through long periods of drought.

Where the surface soil is cut off from the sub-soil by hard pans the strong rooted plants will even penetrate this pan and disintegrate the same with their strong lateral roots. In this way they give great depth to the soil, and enable the parched surface to draw moisture from the previously inaccessible sub-soil. This disintegrating action of the roots also provides free drainage after an excess of rain, which is also of the greatest value.

Experiment No. 3 which is given hereafter clearly shows that on a poor thin soil Mr. Elliot grew 2 tons of hay per acre during an extremely dry season, when miles of the adjoining country sown with ordinary Ryegrass and Clover were completely burned up.

For the benefit of those who may be interested in Mr. Elliot's system we give hereafter four of Mr. Elliot's experiments.

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In April, 1895, a deep low-lying alluvial flat (15 acres) in good condition, was sown down with the following mixture, with a thin seeding of oats :—

5 lbs	...	...	Cocksfoot	2 lbs	...	...	...	...	Alsyke
5 "	...	...	Meadow Foxtail	2 "	...	...	...	...	Cowgrass
5 "	...	...	Tall Fescue	2 "	...	...	...	...	Kidney Vetch
7 "	...	...	Meadow Fescue	2 "	...	...	...	...	Lucerne
4 "	...	...	Timothy	3 "	...	...	...	...	Chicory
1 "	...	...	Wood Meadow Grass	8 "	...	...	...	...	Burnet
1 "	...	...	Rough-stalked Meadow Grass	1 "	...	...	...	...	Sheep's Parsley
2 "	...	...	White Clover	$\frac{1}{2}$ "	...	...	...	...	Yarrow
		...	Total						
				50 $\frac{1}{2}$ lbs	per acre.				

In 1896 this paddock produced 49 cwt. of hay per acre, whilst the aftermath was an excellent crop. The roots of the chicory were traced to a depth of from 30 inches to 3 feet, having penetrated right through an exceedingly hard pan; the roots of the burnet, kidney vetch, and lucerne ranged about 20 inches. These strong roots, especially those of the burnet and chicory, had succeeded in disintegrating the pan with their lateral shoots, and proved themselves capable of doing the work of a subsoil plough. Mr. Elliot considered the wood meadow grass could be done without, it being of little value as a pasture grass.

The second paddock operated on was about 25 acres at a considerable elevation on the slopes of the Cheviots close to the Northumberland border. This was the worst paddock in the district, and had never received any farm-yard manure. When Mr. Elliot took this farm in hand, this paddock was in what was called grass—some ryegrass so poor and thin that the soil could be readily seen and presented a miserable exhausted appearance. A crop of turnips was taken off, and the paddock laid down to grass with a thin seeding of oats.

The grass consisted of :—

14 lbs	...	...	Cocksfoot	2 lbs	...	...	...	Alyshe
5 "	...	...	Tall Fescue	4 "	...	...	...	White Clover
3 "	...	...	Hard Fescue	1 "	...	...	...	Cowgrass
2 "	...	...	Smooth-stalked Meadow Grass	1 "	...	...	...	Yarrow
2 "	...	...	Crested Dogstail	$\frac{1}{2}$ "	...	...	...	Trefoil
1 "	...	...	Golden Oat Grass					
		...	Total	35 $\frac{1}{2}$ lbs	per acre.			

The large proportion of Cocksfoot, and the very large proportion of Yarrow and Tall Fescue, were calculated to store the land with a large amount of vegetable matter, which proved correct. The fourth year a fair crop of turnips without manure was taken off, and sown down again the fifth year with half a seeding of oats (which resulted in a good crop), and the following mixture of grasses :—

6 lbs	...	...	Cocksfoot	2 lbs	...	...	...	Alyske
5 "	...	...	Meadow Grass	2 "	...	...	...	Cowgrass
4 "	...	...	Tall Fescue	2 "	...	...	...	White Clover
2 "	...	...	Hard Fescue	2½ "	...	...	...	Kidney Vetch
2 "	...	...	Smooth-stalked Meadow Grass	1 "	...	...	...	Yarrow
3 "	...	...	Tall Oat Grass	1 "	...	...	...	Sheep's Parsley
4 "	...	...	Italian Ryegrass	2 "	...	...	...	Chicory
1½ "	...	...	Golden Oat Grass	8 "	...	...	...	Burnet
1½ "	...	...	Rough-stalked Meadow Grass					
			Total					
				47½ lbs	per acre.			

The sixth year 2 tons of hay per acre were taken off, leaving a splendid aftermath which was grazed by lambs. The seventh year that paddock presented a better appearance than any in the district.

Compare the first field on alluvial flat, rich and well drained, regularly subjected to heavy dressings of farm-yard manure; the second paddock poor land, exposed, with never any farm-yard manure applied. The first gave 2 tons 9 cwt. per acre, the latter 2 tons, but the results clearly show that the poor inferior soil, with no manure other than that of a good turf, is capable of approximating to the best land which has been aided by farm-yard manure from time immemorial.

A third experiment was made in a paddock called the Bank Field, containing 27 acres. Rather more than half was very poor, stoney and exposed, and in some parts very steep, the remainder fair hill land.

In 1900 it was sown with barley and the following mixture:—

14 lbs	...	Cocksfoot	1 lbs	...	...	Alsyke
7 "	...	Tall Fescue	1 "	...	...	Yarrow
7 "	...	Tall Oat Grass	8 "	...	...	Burnet
1 "	...	Rough-stalked Meadow Grass	3 "	...	...	Kidney Vetch
2 "	...	Cowgrass	3 "	...	...	Chicory
2 "	...	White Clover				
	...	Total	40 lbs	per acre.		

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"CHALLENGE" MANURES

In order to lessen the hay crop and favour the subsequent pasture, the field was subjected to the following treatment:— After harvest and rolling the field, it was stocked for 5 weeks with 5 hoggets per acre and 11 calves, and from first week in April to 20th May with never less than 2 ewes with twin lambs per acre, and often 3 ewes and twins. The field was then shut up for hay, which was estimated at 2 tons per acre, and would certainly have been more but for the severe drought that year. During this drought Mr. Elliot visited the Bank Field, and drove through many miles of the adjoining country, and found that the grass lands sown with ordinary Ryegrass and Clovers were burned up and at a standstill, the Clovers being almost a failure, whereas on the Bank Field a heavy crop of the finest quality hay had just been mown, and the clovers and grasses were just starting a second vigorous growth. In 1892 the pasture on the Bank Field continued to give such satisfaction that Mr. Elliot could not see any way of improving it.

It will be noticed in this experiment that the number of grasses used has been reduced, and that Hard Fescue, Smooth-stalked Meadow Grass, and Wood Meadow Grass have been omitted, and dependence has been placed on the strong-rooted Cocksfoot, Tall Fescue, and Tall Oat Grass, with a little Rough-stalked Meadow Grass to fill up the bottom. On better soils, at a lower elevation, the following selection will prove more advantageous:—

8 lbs	...	...	Cocksfoot	2 lbs	...	...	Cowgrass
4 "	...	...	Tall Fescue	1 "	...	...	Alsyke
6 "	...	...	Meadow Fescue	2 "	...	...	Kidney Veitch
4 "	...	...	Meadow Foxtail	2 "	...	...	Lucerne
4 "	...	...	Tall Oat Grass	3 "	...	...	Chicory
3 "	...	...	Timothy	8 "	...	...	Burnet
1 "	...	...	Rough-stalked Meadow Grass	$\frac{1}{4}$ to $\frac{1}{2}$ lb	...	...	Yarrow
2 "	...	...	White Clover	2 lbs	...	...	Crested Dogstail
			Total				

52½ lbs per acre.

Mr. Elliot conducted a further experiment in the Alyhope Field (56 acres) with a view to demonstrating how inferior grass land may be converted into good pasture at the least possible expense.

In 1896 sixteen acres of this field which is of poor soil and aspect was ploughed and the turf laid over as flat as possible. In 1897, after being simply harrowed it was sown with rape which was eaten off with sheep. In 1898 without any further ploughing it was sown with oats (which produced a fair crop) and strong growing deep-rooted grasses as before mentioned. The cost for labour in converting this paddock from old grass into new was limited to one ploughing and the subsequent harrowings and rollings.

On this experiment Mr. Elliot writes, under date July, 1902, "I consider the reversed turf section to be a wonderful success, and that, as far as I can see at present, the system is not only the best but by far the cheapest method of relaying inferior pasture on a large proportion of soils."

The foregoing experiments were not merely experiments on small plots of ground but whole paddocks, whose respective areas are 15, 25, 27 and 56 acres, and were not conducted simply with a view of ascertaining what would be the result irrespective of cost, but they have been carried on with a view to making a profit, and profitable they have been. On this point Mr. Elliot writes—"I am so satisfied with the financial results of my own farming, and with the knowledge that with the aid of the system I have described, my capital—i.e., the soil—is steadily improving in value, that I have this year bought a farm of 1275 acres, which I certainly could not have done with financial confidence had I not practically proved what could be done with the light and arable portions of it."

Mr. Elliot elsewhere says that in some instances his system has trebled the value of his land, and, mark you, this trebling of the value was going on simultaneously with the production of larger crops than were ever raised before.

The usual course of cropping at Clifton on poor light soils is—

- 1 Roots
- 2 Grain (light seeding) and laid down with grass as before mentioned mixtures
- 3 Grass, 4 to 6 years
- 4 The turf is then broken up and sown with rape or some other green crop
- 5 Grain crop
- 6 Turnips
- 7 Grain (light seeding) and grass, as before, to lie 4 to 6 years

The soil at the second and third breaking up (this is as far as the experiments have reached) was found to be in a far better physical condition than it was at first, and the increased value of the soil was most apparent, also the opening up of the subsoil by the strong roots of the grasses and on the shallow lands increased the depth of the top soil from 6 to 9 inches, at which latter depth they are now ploughing.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SEED GRAINS

Gartons'

GARTONS Ltd.,

Warrington, ENGLAND.,

Sole Agents for N.Z.,

WRIGHT, STEPHENSON & CO., Ltd.

New and Improved
Breeds of

Grain

Why you should Try them!!

BECAUSE—

There are Breeds Suitable to every Soil.

They will withstand the weather.

They will stand where other breeds will be laid by the wind.

They Harvest Early.

They Produce from 10 to 30 per cent. heavier yields per acre.

The Milling Sorts are of Superior Milling Quality and yield more Flour & Meal

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Harvesting New and Improved Breeds of Grasses at Gartons' Experimental Grounds.

Use "Challenge" Manures.

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GARTONS SEED GRAINS

There is Greater Profit to be made in using

GARTONS' REGENERATED STOCKS OF SEED GRAINS

than by using Locally-grown Seed.

This is the experience
of Mr. F Rathgen, of
Brydone, who writes:

"The sack of Gartons' Abundance Oats I got from you has yielded remarkably well. I sowed this on $1\frac{3}{4}$ acres, and it yielded at the rate of 105 bushels per acre, with no special treatment. The other oats in the same paddock yielded 65 bushels per acre. I am selling 12 sacks of the "Abundance" Oat at 5s per bushel."

GARTONS' Regenerated Stock of "ABUNDANCE" OAT
gave Mr. Rathgen an INCREASED PROFIT of £3 0s 10d
per acre, even after paying 15s 6d per Bushel for the
seed.

And this is how it is made up:

GARTONS' IMPORTED SEED PRODUCE PER ACRE	GARTONS' ABUNDANCE OATS—105 Bushels per			
	Acre at 2/4 per Bushel		...	£12 5 0
	LESS COST OF SEED—			
	2½ Bushels	GARTONS' ABUNDANCE OATS,		
	Regenerated Stock, at 15/6 per Bushel		...	1 18 9
	PROFIT per Acre		...	£10 6 3
LOCALLY GROWN SEED PRODUCE PER ACRE	65 Bushels Oats per Acre at 2/4 ... £7 11 8			
	LESS COST OF SEED—			
	2½ Bushels	Locally Grown Seed at 2/6 per Bushel		... 0 6 3
	PROFIT per Acre		...	7 5 5
	INCREASED PROFIT PER ACRE BY USING GARTONS' REGENERATED SEED			
				£3 0 10

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SEED GRAINS

...A Free Gift of £500...

READ BELOW:

It may not be apparent to some of our customers why it is necessary to buy a small quantity of GARTONS' REGENERATED SEED GRAIN every year.

FIRST you must understand that all of GARTONS' IMPROVED BREEDS OF GRAIN are the result of Cross Fertilization as the Pedigree of each Breed shows.

Now, Cross Fertilization when successful produces a new plant, superior in form, vigour and yield to either parent. These characteristics are not, however, absolutely permanent, and in the course of time the Breed deteriorates, runs out, or reverts back to one of the parents. This running out of Hybrid Stock cannot be overcome by mere changing seed, and this simply assures robust constitution. To keep the strain up to its original standard of productiveness, Messrs. Gartons apply their system of plant improvement to a number of individual florets and from the grains thus produced a stock is raised which they term

*** Regenerated Stock ***

The maximum yield is only obtainable in the first few years of the New Breed's existence, and as the years advance the yield diminishes.

Every farmer who grows grain regularly should buy a few bushels of GARTONS' REGENERATED SEED STOCK and grow his own seed. He, in this way, will be increasing his yield every year and also increasing his profit by from 10/- to £3 per acre of grain grown.

See Opposite Page for Facts.

What the Barley Growers Say:

Mr ERNEST SOPER, of Garston, writes:

I have pleasure in stating that the New Breed of Barley "**GARTONS' MALTSTER**," which I got from you HAS REALLY EXCEEDED MY EXPECTATIONS in the results obtained. The threshed sample is beautiful and the COLOUR SPLENDID. IT HAS WITHSTOOD THE WET much better than the ordinary barley grown alongside. I shall certainly keep to the breed, and can recommend it without hesitation to any other Barley growers. I am satisfied that the breed will be a success wherever tried.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SEED GRAINS

...FOR 1907...

GARTONS'

.....New Breed of Bearded Wheat.....

"NEW ERA"

PEDIGREE :

TALavera
(English)

TRITICUM SPELTA
(Species—Southern Asia)

BARTWEIZEN
(Hungarian)

FULTZ
(American)

"NEW ERA"

DESCRIPTION —Early ; Grain, medium large ; Colour, amber translucent ; Straw, long, strong, and of fine texture ; Ear, very long, compact and bearded.

QUALIFICATIONS :

RICHEST IN GLUTEN !!!

RESISTS STORMS AND WINDS !!!

BEST FOR MILLERS !!!

AN ENORMOUS CROPPER !!!

SOW $2\frac{1}{2}$ to 3 BUSHELS PER STATUTE ACRE.

The introduction of this New Breed of Wheat is a forerunner to a remarkably distinct series of other New Breeds to be introduced at a later period, and marks the turning point when the British farmer will be able to produce a Wheat SUPERIOR IN QUALITY to the majority of foreign wheats now so largely used by millers. The quantity and quality of gluten produced by the "NEW ERA" when grown in suitable wheat-growing soils is remarkable, and is QUITE EQUAL to that of the best imported varieties.

Our Remarks Confirmed :

In the Reports of Experiments carried out by the Millers' Association, in conjunction with the Board of Agriculture, the following remarkable results are given :—

Bakers' Tests for strength of flour made from Canadian Wheats and "NEW ERA" Wheat grown at New Haw Farm, Addelstone.

Bread made from Flour of "NEW ERA" Wheat	-	-	80 points
Bread made from Flour of Canadian Wheat, "FIFE" (Autumn sown)	75 points	Aver. 74	,,
Bread made from Flour of Canadian Wheat, "FIFE" (Spring sown)	72		
Bread made from Flour of Canadian Wheat, "PRESTON" (Autumn sown)	75		
Balance in Favour of "NEW ERA"	-	-	6 points
Equal to 8 per cent. increase in strength.			

No 54

Price: 15s 6d per Bushel.

Use Gartons' New Breeds of Mangels.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SEED GRAINS

GARTONS'

NEW BREED OF

"NEW ERA" Wheat

CONTINUED.

Opinions of Practical Growers.

READ THESE—

WORCESTERSHIRE.

"I think it right to let you know that the 'NEW ERA' Wheat Seed you supplied me with last year has produced a splendid crop, estimated by several good judges at from 18 to 20 bags per acre. I planted 12 acres at the end of September last, and this was so strong in the autumn that I kept 50 ewes and 70 lambs upon it for a month. You have chosen an admirable name for this New Breed, as I am fully convinced it will mark a 'New Era' in Wheat growing. If planted toward the end of September or beginning of October it is better than a crop of Rye, and worth £3 per acre for Sheep Keep, as it comes in very useful during the month that keep is so scarce. I may mention that the ewes and lambs while grazing the Wheat had no cake or corn, and improved more than they previously did on grass or clover. I have counted as many as 90 corns in one of the ears, and it is my present intention not to grow any other sort of wheat."—Mr. LAMBERT NICHOLLS, Grimley.

MONTGOMERYSHIRE.

"The 'New Era' Wheat which I had from you has produced a magnificent crop. I sowed three different varieties of Wheat on the same field and in exactly the same condition, but your 'New Era' stood the Winter best, and is also superior in every way to the others. Many of my neighbours have come to see this, and you may expect a good many orders this Autumn for it from this neighbourhood. I shall confine myself entirely to this new breed."—Mr. THOS. HOWARD, Montgomery.

SUFFOLK.

"I have a magnificent field of your New Breed of 'New Era' Wheat. Many farmers tell me it is the finest piece of Wheat they have ever seen. It is all the more remarkable as it is four years since the field was manured."—Mr. A. H. HUCKELSBY, Wyverstone.

SCOTLAND.

"The New Breed of 'New Era' Wheat which I received from you last Autumn proved to be a great success. This 'stocked' well; the straw, too, is long, strong, and of excellent quality, and there is every appearance of a good yield of grain per acre. I intend sowing a larger breadth of it next season."—Mr. ALEX. ANDERSON, The Pleasance, Coupar Angus.

IRELAND.

"The New Breed of 'New Era' Wheat which I got from you last year has produced a most marvellous crop. I never in all my experience saw anything so luxurious. The field of your New Oat sown this year also is looking remarkably well."—Mr. M. TENNENT, Bally Loughen.



Typical Specimen of ear of New Breed of "New Era" Wheat.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SEED GRAINS

GARTONS'...

...Regenerated Stock for 1907...

"New Abundance" or "The Garton" Oat

Introduced in 1892 under the name of "Abundance"

Known in N.Z. as "The Garton" Oat

PEDIGREE: WHITE AUGUST WHITE SWEDISH

"ABUNDANCE"

IN PUBLIC TRIALS the Regenerated Stock of "NEW ABUNDANCE" Oat has
Yielded 25 PER CENT. more than the ordinary Stock.

RESULTS OF TESTS made by the
Highland and Agricultural Society of Scotland and the
Canadian Department of Agriculture

**BETWEEN SEED OF REGENERATED STOCK AND
SEED OF ORIGINAL STOCK OF "ABUNDANCE" OR "THE GARTON" OAT.**

HIGHLAND & AGRICULTURAL SOCIETY'S TEST.

Yield per acre from seed of Regenerated Stock	68 Bushels
Yield per acre from seed of ORIGINAL STOCK	55 "
Increased Yield per acre in favour of Regenerated Stock	13 Bushels

(Vide Report in the Highland and Agricultural Society of Scotland's Transactions)

CANADIAN DEPARTMENT OF AGRICULTURE'S TEST.

Yield per acre from seed of Regenerated Stock	89 Bushels
Yield per acre from seed of ORIGINAL STOCK	71 "
Increased Yield per acre in favour of Regenerated Stock	18 Bushels

(Vide Report Canadian Experimental Farms)

A NEW ZEALAND EXPERIENCE, BY MR F. RATHGEN, BRYDONE.

Yield per acre from seed of Regenerated Stock	105 Bushels
Yield per acre from seed LOCALLY GROWN	65 "
Increased Yield in favour of Regenerated Stock	40 Bushels

The additional yields of 13 and 18 Bushels per acre are equal to an increase of over 25 per cent. In Mr. F. Ruthgen's case the increase was over 60 per cent. The money value of this increase may be summed up as follows:—

40 Bushels of Oats at 2s 4d on Trucks, present market value	£4 13 4
Less Extra Cost of Regenerated Seed:	
2½ Bushels Regenerated Seed at 15s 6d per Bushel	£1 18 9
Less Cost of Locally Grown Seed 2½ Bushels at 2s 6d	0 6 3
Increased Value per Acre	£3 0 10

A Farmer growing 100 acres might Increase the Value of his Crop by
£312 10s by using all Gartons' Regenerated Seed Stock at 15s 6d per Bushel.

WRIGHT, STEPHENSON & CO. LTD.

GARTON'S SEED GRAINS



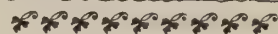
Gartons'...

Regenerated Stock of

"New Abundance"

or

"The Garton" Oat.



WHY REGENERATED STOCK IS NECESSARY.

When New Breeds of plants are raised from cross-fertilized seed the tendency is, after the lapse of a few years, to deteriorate, as strikingly shown in the different varieties of potatoes which succeed for a few years, then fall out of cultivation, to give place to others of more recent origin. This is exactly what occurs in all other New Breeds of farm plants which are produced by means of artificial fertilization. In the case of New Breeds of grain this deterioration is caused by nature's system of continual in and in breeding. To arrest this deterioration and bring these New Breeds back to their original productiveness, Messrs Gartons' system of plant improvement is each year applied to a number of individual florets, and from the grains thus produced, a stock is raised which we term

REGENERATED STOCK.

For results of comparative tests and and other particulars as to the superiority of this "Regenerated Stock," see page 49.

No. 55 Price: 15/6 per bush.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SEED GRAINS

GARTONS'...

New Breed of Black Oat

"RIVAL"

PEDIGREE:

"ABUNDANCE" or "THE GARTON"

"BLACK TARTARIAN"

"ETAMPES"

"RIVAL"

DESCRIPTION—Early; Grain, black, very similar in form to "Abundance" or "The Garton"; Husk, very thin; Ear, sideway or Tartarian; Straw, strong; Habit of Growth, very erect.

Analysis of Composition of GRAIN:

Groat	...	...	...	...	75.65 per cent.
Husk	...	...	...	...	24.34 "

Composition of GROAT or KERNEL:

Albuminous Compounds	...	...	...	11.41
Oil	...	...	...	6.95
Carbohydrates	...	...	...	67.75
Water	...	...	...	10.00
Indigestible Fibre	...	...	...	2.02
Ash	...	...	...	1.87
				<u>100.00</u>

The average of the best of the older varieties of Oats gives a ratio of groat to husk of 70 to 26 or 30. This New "RIVAL" Oat has ONLY 14% OF HUSK.

The groat of this New Oat contains about 7% of oil, which is exceptionally high, and it must form a conspicuously good Feeding and Milling Oat.

Analysis of Composition of STRAW:

1. Albuminous Compounds	...	...	...	2.12
Oil	...	...	...	1.28
Carbohydrates	...	...	...	36.28
Indigestible Cellulose	...	...	...	37.24
Moisture	...	...	...	18.60
2. Ash...	...	...	...	4.48
				<u>100.00</u>
1. Containing Nitrogen	...	...	...	0.34
2. Containing Silica...	...	...	...	0.80

This Straw is remarkably low in Silica, while it is rich in Carbohydrates and Bone Formers.

(Signed) JOHN HUNTER, F.I.C., F.C.S., Public Analyst for Mid-lothian, &c.

Wright, Stephenson & Co., Ltd., GARTONS' SEED GRAIN.



Typical specimen Ear (slightly reduced) of the New Breed of Oat "Rival," drawn from a field crop.

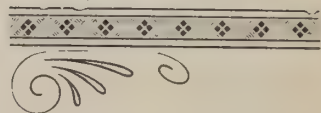


A normal specimen Ear of the New Breed of Oat "Rival," with the chaffs or outer glumes removed and the branches spread out to illustrate its prolific habit. A typical panicle and form of grain is also shown at the base.

CARTONS'

NEW
BREED
OF
BLACK
OAT
FOR
1907

"Rival"



QUALIFICATIONS:

Extreme Fertility.

High Saccharine Value of
Straw.

Maximum Yield of Grain.

Minimum amount of Husk.

The Thinnest-skinned Oat
in Cultivation.

Price: No. 56
17/6 per bushel.

WRIGHT, STEPHENSON & CO. LTD.

CARTONS SEED GRAINS

WRIGHT, STEPHENSON & CO. LTD.

CARTONS SEED GRAINS

Originally Introduced in 1899

GARTONS' New Breed of White Oat
"TARTAR KING."

Black Tartarian

White Canadian

Black Tartarian White Tartarian White Canadian

“TARTAR KING”

**A Yield of 15 Quarters or 120 bushels
per Acre !**

I have grown one of the most extraordinary crops of Oats ever seen in this District from your New Breed of "Tartar King." This has produced an average crop of 15 quarters to the acre, with straw nearly 6 ft. high, which has stood up exceptionally well. You deserve the greatest praise for introducing this wonderful Oat, and I feel sure that no farmer could wish for a more profitable Oat."

MR. JOHN KNIGHT, Farnham
(Surrey)

A Splendid Crop!

"We have grown a splendid crop of your New Breed of Oat, 'Tartar King.' Although this was planted late and on poor soil, we are delighted with the crop, and we intend to keep the whole of the produce for seed to plant this season. Many farmers in this district called to inspect our crop when growing, and they were unanimous in their opinion, that you deserve every credit for your efforts to improve the breeds of our farm plants."

MESSRS. HARWOOD BROS.,
Lees Rest (Oxon.)

Important Success ...

IN TESTS MADE BY

THE YORKSHIRE COLLEGE,
LEEDS, and

THE YORKSHIRE COUNCIL
FOR AGRICULTURAL
EDUCATION, at their

TRIAL GROUNDS, GARFORTH, during 1902 and 1903.

GARTONS' New Breed White Oat, "TARTAR KING,"

Showed the following remarkable results on the 2 years' averages:

Show the following remarkable results on the 2 years' averages.				£	s.	d.
"Tartar King" outyielded	"Banner"	22	per cent. equal to a monetary value of	1	12	6 per acre.
"Tartar King" outyielded	"Black Tartarian"	28½	per cent. equal to a monetary value of	2	0	0 per acre.
"Tartar King" outyielded	"Potato Oat"	37	per cent. equal to a monetary value of	2	8	1 per acre.
"Tartar King" outyielded	"Hamilton"	39	per cent. equal to a monetary value of	2	10	0 per acre.
"Tartar King" outyielded	"Longhoughton"	43½	per cent. equal to a monetary value of	2	14	4 per acre.
"Tartar King" outyielded	"Sandy"	56	per cent. equal to a monetary value of	3	4	4 per acre.

Average increase in Value per acre in favour of "Tartar King"	£2 6s 6d
Average increase per acre in favour of "Tartar King"	37 ¹ / ₂ per cent.

Price: 15s 6d per Bushel



A Great Crop of Gartons' New Breed of "Tartar King" Oats, grown by Mr. Geo. Simpson,
West Plains, Southland, from imported seed.

WRIGHT, STEPHENSON & Co. Ltd.

GARTONS SEED GRAINS

... FOR 1907 ...

Gartons'

New Breed of

BLACK TARTARIAN OAT

"EXCELSIOR"

A Counterpart of our Famous "Storm King" Oat!
Destined to Supersede the Old Black Tartarian Oat!!
Resists Storms and Winds!!!

PEDIGREE:

Abundance	Black Tartarian	Pioneer	Scotch Potato
(New Breed)		(New Breed)	

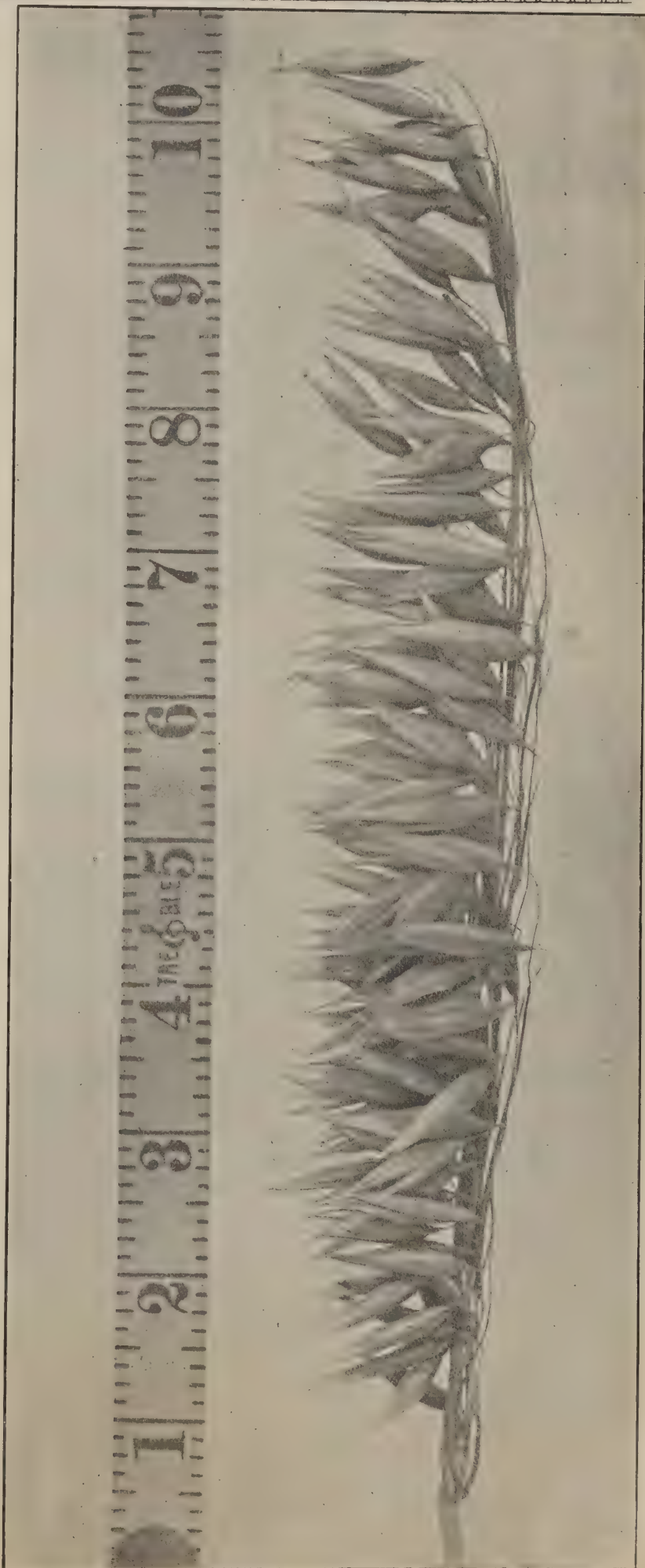
"EXCELSIOR"

DESCRIPTION.—Very early; Grain, black, short, plump, and very heavy; Tartarian head, with remarkably strong straw of medium length.

This distinct *New Breed* of "*Black Tartarian Oat*" ripens ten to fourteen days earlier than the old variety, producing large black, plump grains, double the size of that variety, and weighing up to 50 lbs. per imperial bushel. The straw is of medium length, remarkably strong, and is of such a character as to admit of its being harvested with a binder, when the old variety under similar conditions would be laid by wind and rain. Although this valuable New Breed was only introduced two years ago it has already become immensely popular. Its cropping properties, quality of grain, and strength of straw giving it distinct advantages over all other Black Oats in cultivation. It has also been awarded all the Leading First Prizes for Black Oats during the past season.

To ensure fine quality of Straw and Grain not less than 4 Bushels should be sown per statute acre.

58 Price: 14s 6d per Bushel.



Photograph (slightly reduced) of a single Ear drawn from a Field Crop.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SEED GRAINS

GARTONS' New Breed of Semi-Winter Oat

QUALIFICATIONS :

Hardness of Constitution !
Vigorous Habit !
Valuable Feeding Properties
of Straw !
Immense Yield of Grain !

"GOLDFINDER"

.....Regenerated Stock.....

PEDIGREE: WHITE CANADIAN YELLOW POLAND WINTER

"GOLDFINDER."

DESCRIPTION.—Medium early; Grain, large and of a beautiful golden colour; Straw, long and very strong; Ear, long and very open pyramidal.

This Oat may be sown any time from the beginning of June to the end of August, one of its parents, the Winter variety, giving it a hardier constitution than any other Spring Oat. In recent experiments made by the Highland and Agricultural Society of Scotland to test the feeding values of different varieties of straw, the "Goldfinder" proved to be **superior to that of any other variety.** Oatmeal made from the "Goldfinder Oats" is superior in quality and flavour to that made from any other Oat.

In trials made to determine the percentage of husk on each variety of Oats, made at the Yorkshire College of Science, Gartons' New Breed of Oat, "GOLDFINDER," showed 4 % less husk than on the famous Scotch Hamilton variety.

No. 59

Price: 14s 6d per Bushel.

GARTONS' New Breed of White Oat

"WAVERLEY"

.....Regenerated Stock.....

PEDIGREE: SCOTCH POTATO NAKED OAT OF CHINA WHITE TARTARIAN FLANDERS YELLOW

"WAVERLEY"

DESCRIPTION.—Medium early, ripening about the same time as the "Scotch Potato" variety; Grain, large and very thin in the skin; Straw, long and strong; Head, long, open and pyramidal.

This Oat is best adapted for land of medium fertility, and will also give better results on poor land than any other variety. We have always strongly recommended our Customers to sow this valuable New Breed of White Oat, and the many flattering testimonies we have received since it was introduced, fully confirm our own opinion, as well as that of leading Agriculturists and Scientific Experts.

A YIELD OF 10 QUARTERS ON POOR LAND

"I have just threshed a crop of 'WAVERLEY' Oat grown from the Seed supplied by you last Spring, and you will be interested to know that this has given an average yield of 10 quarters per acre. This I consider most satisfactory, as the land upon which this was sown has not produced a profitable crop for many years, it being considered too poor and hopeless to cultivate. Altogether I consider your New Breed of 'WAVERLEY' one of the most reliable and profitable Oats yet introduced."

MR. F. DUNN (Hertfordshire)

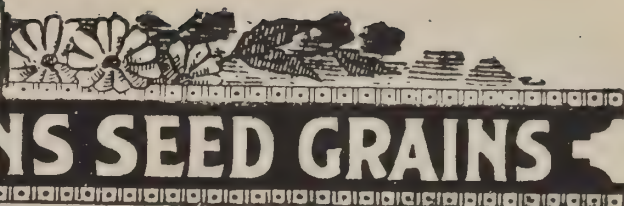
QUALIFICATIONS :

Exceptionally Fine Quality !
Immense Productive Powers !
Specially Suited for Poor
Lands !

No. 60

Price: 14s 6d per Bushel.

WRIGHT, STEPHENSON & CO. LTD.



GARTONS'

New Breed of White Oat

Regenerated Stock

"STORM KING"

PEDIGREE:

White August

White Swedish

White Tartarian

Abundance

Scotch Potato

"STORM KING."

DESCRIPTION.—Early; Grain, very large, white, short and plump, weighing in some cases 50 lb. per bushel; Straw remarkably strong; Head, pure Tartarian habit.

To ensure fine quality of straw and grain not less than 4 bushels should be sown per statute acre.

No 61

Price: 14s 6d per bushel.

GARTONS'

New Breed of Yellow Oat

Regenerated Stock

"COLOSSAL"

PEDIGREE:

White August

White Swedish

Flanders Yellow

Waterloo

"COLOSSAL."

DESCRIPTION.—Early; Grain, yellow, very large, long plump, and heavy; Ear, very open bellhead; Straw, long and strong.

To ensure fine quality of straw and grain not less than 4 bushels should be sown per statute acre.

No 62

Price: 14s 6d per bushel.

GARTONS'

New Breed of Black Oat

Regenerated Stock

"PIONEER"

PEDIGREE:

Black Tartarian

Scotch Potato

Waterloo

White August

"PIONEER."

DESCRIPTION.—Very early; Grain, black, large, short, plump and heavy; Straw, very strong; Head open and pyramidal. In districts where Black Oats succeed and where it is not possible to grow other varieties satisfactorily, the introduction of "Pioneer" has proved to be a most valuable addition.

To ensure fine quality of straw and grain not less than 4 bushels should be sown per statute acre.

No 63

Price: 14s 6d per bushel.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS' SEED GRAINS

*** For Introduction 1907 ***

Gartons'

New Breed of Barley

"IDEAL"

QUALIFICATIONS:

"IDEAL" in
Colour, Quality and
Size of Grain!!!

"IDEAL" in
Yield!!!

"IDEAL" in
Strength and
Quality of Straw!!!

"IDEAL" in
Freedom from Smut!!

PEDIGREE: Chevalier Standwell Jewel Chevalier

"IDEAL"

DESCRIPTION.—Hardy constitution; Early; Grain "Chevalier" form, long, large and very wrinkled; Straw long and strong; Ear long and drooping.

THIS IS WITHOUT DOUBT THE MOST PERFECT BARLEY EVER PRODUCED.

The grain is long and plump without the least approach to coarseness, and possesses that fine wrinkled quality and colour of skin so much sought after by Brewers and Maltsters.

In tests made, this Barley has largely outyielded any other known two-rowed variety. The straw is long, strong and flexible, and not liable to lodge during stormy weather; the ear long and drooping, thus preventing to a great extent the discolouration of the grain during wet harvests.

During the time we have been working up the stock of this Barley, it has also proved to be quite proof against the attack of smut.

In the "IDEAL" will be found a counterpart of the "Chevalier," possessing all the fine malting qualities of that variety, with the additional advantages of heavier yield, larger and finer quality of grain, and freedom from smut—advantages which must recommend this New Breed to every grower who appreciates a really good quality of Barley.

Practical Opinions of British Barley Growers:

Finest piece I have ever grown!

"I have much pleasure in reporting favourably on your New Breed of Barley "IDEAL." My field of this produced a magnificent crop; in fact it was the finest piece of Barley I have ever grown. The ears were exceptionally long, carrying a heavy weight of grain, but the straw was quite equal to this and the crop stood erect throughout and was easily cut with the binder. The sample is all that could be wished for, having a fine clear skin and nice mellow colour which are sure indications that it is possessed of excellent malting properties."—MR. W. P. JAMES, Montgomeryshire.

Grain very Plump; Fine wrinkled Skin!

"I have taken great interest in your New Breed of Barley, "IDEAL," from the time I sowed the seed. From the beginning this showed a very robust constitution and was absolutely free from smut. Although the ears are long and necessarily heavy with so many grains on them, the crop stood exceptionally well and was easily cut with the binder. The grain is very plump with a fine wrinkled skin, and appears to have all the qualifications of making an ideal malting Barley."—MR. J. HUDSON DAVIES, Shropshire.

To ensure fine quality of Grain and Straw, sow 2 to 2½ bushels per statute acre.

No 64

Price: 2ls per bushel (50lbs.)

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SEED GRAINS

GARTONS' NEW IDEAL BARLEY.

Practical Opinions of British Barley Growers.



Photograph of typical ears (slightly reduced) and grain of "IDEAL" BARLEY, illustrating the Chevalier form of grain and the semi-drooping habit of ear.

Heaviest Crop out of 150 Acres!

"The 12 acres of 'IDEAL' Barley which I have grown for you this season has proved itself to be the heaviest crop out of 150 acres of other varieties which I was also growing; the yield of 'IDEAL' was nearly six quarters per acre. The straw was strong and although of good length, I was able to cut the whole of the crop with the self-binder without any trouble."

Mr. N. J. HINE, Hertfordshire.

Sure to become a Favourite!

"Your New Breed of Barley 'IDEAL' which I have grown for you this year has produced a crop in every way beyond my expectations. I am also very pleased with the quality, and taking into consideration its heavy cropping properties I feel sure it will become a favourite both with farmers and maltsters."

Mr. C. A. BANNISTER, Staffordshire.

Ideal both for Farmer and Maltster!

"I have much pleasure in reporting favourably upon the New Breed of Barley 'IDEAL' which I have grown for you this season. This was undoubtedly one of the best pieces of Barley in the county, and I think you have rightly named it 'IDEAL,' as it is not only a heavy cropping variety but is also an ideal variety both for the farmer to grow as well as the maltster to use."

Mr. J. P. BEAUMONT, Shropshire.

Could wish for nothing Better!

"I have no cause to regret having taken a contract to grow your New Breed of Barley 'IDEAL.' This has yielded an excellent crop, and both for quantity and quality I could wish for nothing better."

Mr. WM. J. JEFFERIES, Shropshire.

Free from Smut!

"Your New Breed of Barley 'IDEAL' appears to be quite up to the standard of the name it bears. My crop of this was exceptionally clean, not a single ear of smut being seen in the whole field, and it has not only yielded a heavy crop, but from its appearance I should say it is a profitable variety for the farmer to grow, and also an ideal one for maltsters."

Mr. J. H. JAMES-MOORE, Shropshire.

Leaves nothing to be desired!

"The New Breed of 'IDEAL' Barley which I have grown on contract for you has produced one of the heaviest crops I have seen in this part. Although the heads were of great length, and consequently heavy, the straw was sufficiently strong to carry these without breaking in any way. The quality of the grain leaves nothing to be desired, and altogether I have formed a very high opinion of it."

Mr. J. LLOYD WILLIAMS, Flintshire.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SEED GRAINS

GARTONS' New Breed of Barley

"STANDWELL"

...Regenerated Stock for 1907...

RESULTS OF PUBLIC TESTS.

Made by the Canadian Department of Agriculture between Seed of the Original Stock and Seed of the Regenerated Stock of "STANDWELL" Barley at their Experimental Farms at the following centres:—

BRANDON	Yield per acre from Seed of Regenerated Stock	...	...	63 bushels
	Yield per acre from Seed of Original Stock	...	...	30 "
	Increased Yield per acre in favour of Regenerated Stock	...	...	33 "
INDIAN HEAD	Yield per acre from Seed of Regenerated Stock	...	...	67 bushels
	Yield per acre from Seed of Original Stock	...	...	40 "
	Increased Yield per acre in favour of Regenerated Stock	...	...	27 "
OTTAWA	Yield per acre from Seed of Regenerated Stock	...	...	41 bushels
	Yield per acre from Seed of Original Stock	...	...	33 "
	Increased Yield per acre in favour of Regenerated Stock	...	...	8 "
AGASSEZ	Yield per acre from Seed of Regenerated Stock	...	...	56 bushels
	Yield per acre from Seed of Original Stock	...	...	50 "
	Increased Yield in favour of Regenerated Stock	...	...	6 "

These figures show an average increased yield per acre of

18½ BUSHEL.

And more than confirm our own Results of

15 to 25 per cent.

Increase in favour of Regenerated Stock.

DESCRIPTION.—Very early; Grain, beautiful pale golden colour, large size, thin skin. Produces an abundance of Straw which is not given to lodge to the same extent as in the old varieties. Ear, close and compact, of medium length.

Year by year this valuable NEW BREED of Barley gains favour and becomes more appreciated by Maltsters and Brewers who now fully recognise its worth. In some districts where the "Chevalier" variety was the only kind formerly grown, it has been entirely replaced by "STANDWELL," and each season brings an increased demand for seed from other districts. The stock here offered will be found a decided improvement upon that originally sent out by us, and we strongly advise all growers of "STANDWELL" the necessity of procuring direct from us a periodical change of seed.

No 65

Price: 21s per Bushel of 50 lbs

Sow from 2 to 2½ bushels per Statute Acre.

PRIZES:

1st & CHAMPION CUP—Dublin
Dalkeith
Harewood End

1st PRIZE—Brewers' Exhibition, London
Best Malting Barley, Birmingham
Best Malting Barley, Liverpool

AND MANY OTHERS TOO NUMEROUS TO MENTION.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SEED GRAINS

Regenerated Stock for 1907

GARTONS' New Breed of Barley

"The Maltster"

AN IDEAL MALTING BARLEY.

PEDIGREE:

Jewel Italian Chevalier Invincible (New Breed)

"THE MALTSTER"

Sow 2 to 2½ Bushels per statute acre.

DESCRIPTION.—Early: Grain very large, plump and thin skinned. Straw, long and strong; Ear, long and compact.

This valuable New Breed of Barley has now stood the test several years, and the steadily increasing demand there is for it is the best evidence of its superior quality and heavy cropping properties. The Straw is long and very strong, and can be cut with a self-binder under conditions when the old variety of "Chevalier" would be rotting upon the ground. Altogether this is a Barley we can strongly recommend in every respect. In raising New Breeds of Barley, our aim has been to produce varieties which would entirely resist smut, and in the production of "The Maltster" we have been particularly successful in this respect. The grain is very large and thin-skinned, and its success in leading competitions is further evidence of its all-round high-class qualities.

The only TWO GOLD MEDALS

Offered for NEW BREEDS OF BARLEY at the Brewers' Exhibition were awarded to Gartons'.... New Breeds.



MALTSTER BARLEY. Grown by Mr. Ernest Soper, of Garston, Southland.

No. 66

PRICE: 20s. PER BUSHEL OF 50 LBS.

Read what Mr. Soper says on page 49.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SEED GRAINS

GARTONS' NEW BREED OF BARLEY SIX-ROW CHEVALIER

"ECLIPSE"

PEDIGREE: Fan Golden Melon Chevalier Golden Melon
Standwell Progeny of Chevalier and Golden Melon
Invincible Manchurian
Progeny of Invincible and Manchurian Chevalier
"ECLIPSE"

A Six-rowed Barley of High-class Quality.

DESCRIPTION.—Ear six row; type 'Chevalier'; grain medium large, plump and thin skinned; straw long and strong; early.

"ECLIPSE" is a New Breed of Barley, possessing valuable and important recommendations. It is the first of a series of what may be termed a New Class, which has been secured by a combination of the two and six-rowed varieties.

The combination has resulted in the production of New Breeds producing *six rows* of grains on each ear, and possessing that fine wrinkled quality of grain so much sought after by Maltsters and Brewers. The properties of the different varieties used in the production of "ECLIPSE" at once stamp it as a New Breed of sterling merit.

Manchurian Barley, one of the varieties used is a very distinct variety collected for us by one of our collectors in Manchuria, N.E. China, and from it the basis of this series of six-row types has emanated. Other useful Barleys used have been "Golden Melon" and "Chevalier," and initial and final crosses have been made with "Chevalier" to further permeate it with the high-class properties of this variety.

"ECLIPSE" is quite distinct from any other known variety and is a very robust grower, free from smut and an abnormally heavy yielder. During the very dry summer of 1901 "ECLIPSE" produced some marvellous crops, yielding in one instance over 100 per cent. heavier than the two-rowed varieties growing under identical conditions. Owing to its many excellent qualities, "ECLIPSE" is quite an ideal Barley, which will be welcomed alike by the Farmer, the Maltster and the Brewer.

No. 67 **Price: 18s 6d per Bushel of 50 lbs.**

GARTONS' NEW BREED OF BARLEY

"INVINCIBLE"

PEDIGREE: Chevalier Golden Melon Standwell

Sow 2 to 2½ Bushels per Statute Acre.

"INVINCIBLE"

Has been Awarded **FIRST PRIZES** At the
Leading Principal Exhibitions

DESCRIPTION.—Early; grain large, plump and thin skinned; straw long and strong; vigorous constitution; ear medium long and compact. A well-known standard Barley, largely grown in the best Barley Districts of the Country.

No. 67A **Price: 18s 6d per Bushel of 50 lbs.**

GARTONS' New Breed of Barley

"BREWERS FAVORITE"

PEDIGREE: Fan Golden Melon Chevalier Chevalier
Standwell

"BREWERS FAVORITE"

DESCRIPTION.—Medium Early; grain intermediate in form between "Chevalier" and "Standwell"; large and very thin-skinned; straw medium long and strong; ear long and moderately compact.

No. 67B **Price: 18s 6d per Bushel of 50 lbs.**

Seed Grain.

HEAVY MACHINE DRESSED

The importance of sowing good grain, well dressed, cannot be under-estimated by the farmer. We have gone to great expense in the erection of a Grain Cleaning Plant, and we claim that our seed grain is one of the best dressed samples on the market. At the Invercargill Winter Show, 1907, we won 17 Firsts out of a possible of 19 in the competitions for dressed grain.

WHEAT.

- | | | |
|----|-----------|--|
| 68 | Tuscan | Special sorts procured at shortest notice. |
| 69 | Red Straw | |
| 70 | Red Chaff | |
| 71 | Velvet | |

PRICE Market Rates

OATS.

When deciding what variety to sow, always bear in mind that some sorts are more saleable than others. Foreign buyers expect when buying Bluff Oats to get stout, heavy, short, white varieties such as Sparrowbills or Gartons.

Per Bush.

- | | | |
|----|---|----|
| 72 | GARTONS' New ABUNDANCE, a white Oat, locally grown from Gartons' Seed imported in 1905. A very heavy yielder | 5s |
| 73 | GARTONS' New Breed of TARTAR KING, locally grown from Gartons' Seed imported in 1905, a tremendous yielder | 5s |
| 74 | GARTONS' New Breed COLOSSAL, an early variety, yellow in colour, grown locally from seed imported in 1905 | 5s |
| 75 | GARTONS' New Breed EXCELSIOR, locally grown from Gartons' Seed imported in 1905. This is a New Black Tartar Oat, with a very large kernel, early, and splendid storm resister | 5s |
| 76 | Sparrowbills, the most serviceable Oat on the market, must be heavy and plump, always saleable. | |
| 77 | Gartons, a good milling sort, and consequently when bright and heavy more saleable than Sparrowbills. | |
| 78 | Waverley, rather too thin for a good export Oat. | |
| 79 | Tartar King, valuable on account of its extraordinary strong straw, which will not lie down even on the heaviest strong soil. | |
| 80 | Hamiltons, very little affected by bad harvest weather, bright samples obtainable when other varieties are badly coloured. | |
| 81 | Long White Tartarians, choice seed samples are at times in good demand. Medium samples are usually dull of sale. | |

OATS—Continued.

- | | |
|----|---|
| 82 | Black Tartarians, choice seed samples are saleable in small quantities. |
| 83 | Newmarket, plump, heavy samples only, are suitable for export. |
| 84 | Danish, worth about twopence per bushel below good Sparrowbills. |
| 85 | Sutherlands, prime milling samples command full market rates. |

PRICE—

Machine Dressed Market Rates
(Oats cleaned on owners' account.)

BARLEY.

A thorough change of seed may be desired by some growers. We offer Blenheim grown.

- | | | |
|----|--|--------------|
| 86 | Chevalier, very prime | Market Price |
| 87 | Golden Drop, short, plump, very fine malting variety | " " |

CAPE BARLEY.

Will produce splendid early spring feed.

- | | | |
|----|--|--------------|
| 88 | | Market Price |
|----|--|--------------|

RYE CORN.

Autumn sown, may be eaten off in early spring, and harvested at the usual time.

- | | | |
|----|---------------------|--------------|
| 89 | Prime Northern Seed | Market Price |
|----|---------------------|--------------|

Bluestone (for Pickling Grain)

Clarke's Patent Wheat Protector

1s 3d Per Packet.
(Sufficient for 5 Bushels.)

WRIGHT, STEPHENSON & CO. LTD.

GARTONS YELLOW TURNIPS

GARTONS'...

New and Improved Breeds of

Turnips, Swedes and

Mangels

Why you should Grow Them!

BECAUSE!

The Seed is always Fresh!

The Germination is of the Highest!

They Breard and Come Away very Quickly!

Less Seed will Do!

The Roots are of nice Even Appearance!

The Roots are bred for Quality!

The Roots show a very high percentage of Flesh and Fat Formers!

The Roots show Minimum Percentage of Indigestible Fibre!

The Roots are very Sweet and Palatable and consequently are greedily
Eaten by Stock!

The Extra Quality will Fatten more Stock per acre.

By using Gartons' Seeds you Increase your Profit!

WRIGHT, STEPHENSON & CO. LTD.

GARTONS MANGELS



Exhibit of Roots grown from Gartons' Seeds at the Dunedin Winter Show, 1907.

What New Zealand Growers Say.

Gartons' Swedes
Mangels,
Yellow and
White Turnips

Mr. GEORGE SIMPSON, West Plains, writes—

"I am pleased to give my opinion *re* Gartons' Seeds. As I always **compete at the Winter Show in Invercargill** and surrounding districts. I have made a practice of trying nearly all the different brands of Turnip Seeds on the market. My experience is that **Gartons' Seeds are, without doubt, the best I have ever used**; I could not wish for better. They certainly cost a little more, but I would willingly pay double than use any other kind."

Gartons' Yellow
Tankard

Mr. W. H. MILNE, Woodlands, writes—

"I find that your Gartons' Turnip Seeds are the best to grow; they are absolutely reliable and true to name. I especially like the yellow tankard, two acres of which I grew last year, and the crop was magnificent."

Gartons' Green-
Top Scotch

Mr. SIMON GRANT, Opio, writes—

"The Gartons' Green Top Scotch Turnip has given me every satisfaction. The braird was splendid, and the roots even and clean."

Use "CHALLENGE" Manures.

Gartons' Seeds—Testimonials Continued.

Various Sorts
Swedes and
Yellows

Mr. H. G. BRASS, Benmore, writes—

"This is the second year I have used Gartons' Seeds, and I am highly pleased with the results. The seed germinates perfectly, and the plants were most vigorous and true to name—in fact, I have had nothing like them before. Six ounces per acre, I find, is ample. I intend using no other."

Gartons' Swedes
and Mangels

Mr. THOMAS MURRAY, Royal Bush, writes—

"I used these for the first time this year, and I must say I am well satisfied with the results."

Gartons' Swedes
and Yellows

Mr. P. A. VYNER, Royal Bush, writes—

"Gartons' Turnip Seed has given me splendid results. I consider that the high germinating power, and the superior quality of the roots, a long way more than counterbalances the extra cost of the seed."

Gartons' Yellow
Turnips

Mr. H. C. SUTTON, Thornbury, writes—

"The Gartons' Turnip Seed I purchased from you has given me a splendid crop, and I intend using Gartons' again next year."

Gartons' Yellow
Turnips

Mr. JAMES NICHOLL, Waianawa, writes—

"I am well pleased with Gartons' Turnip Seed. They germinated splendidly, and produced a fine, healthy vigorous crop. I shall certainly use Gartons' Seed again next season."

Gartons' Yellow
Turnips

Mr. W. A. YOUNG, Waianawa, writes—

"My opinion of Gartons' Turnip Seed is that it is the best I have ever used. The extra cost is as nothing compared with the splendid results obtainable from them. I find every seed true to name."

Gartons' Yellow
Turnips

Mr. JOHN AITCHISON, Morton Mains, writes—

"I have a record crop of Turnips grown from Gartons' Seed. The extra cost of the seed is as nothing considering the results obtained."

Yellow Fleshed

Mr. THOMAS AYSON, Wyndham, writes—

"I partly used Gartons' Turnip Seeds this season, and I am convinced that the results more than justify the extra cost. Will most certainly use them wholly in future."

Swedes and
White Turnips.

Messrs. J. & D. MCKENZIE, Woodlands, write—

"We are very well satisfied with Gartons' Swedes and soft Turnips, and intend using them in future."

Gartons' Swedes
and White
Turnips

Messrs. R. & A. OFFICER, Thornbury, write—

"We are more than satisfied with Gartons' Seed—both Swedes and White Turnips. Every seed grew, and the plants are true to name, and vigorous."

Gartons' Seeds—Testimonials continued.

Gartons' Swedes
and Yellows

Mr. JAMES GALT, Wyndham, writes—

"Gartons' Turnip Seed has given me extremely good results. The germination was very good, and the roots are even and of good shape. In my opinion, they are well worth the extra money charged for them."

Gartons' Yellow
Turnips

Mr. J. R. KIDD, Fortrose, writes—

"As a rule I never give a testimonial, but the results obtained from Gartons' Turnip Seed were so satisfactory, I feel it my duty to do so. I only put 8 ozs. to the acre, and obtained a better crop than that on which I put 2 lbs. of other seed. I believe every seed grew, and grew well."

Gartons' Yellows
and Swedes

Mr. OSCAR BAIRD writes—

"This is the second year I have used Gartons' Turnip Seed, and I will always use them in preference to any other. They could not possibly be beaten."



Crossing New Breeds of Swedes, Turnips, and Mangels at Gartons' Experimental Grounds.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS WHITE TURNIPS

Gartons' White-Fleshed Turnips

ALL OF PROVED GERMINATION.

Awarded Leading First Prizes.

The Best White-Fleshed Turnip Offered



Given Entire Satisfaction!!

"I have great pleasure in stating that your Improved Breed of 'Hardy Green Globe' Turnip and also your Improved Breed of Large 'Yellow Globe Mangel' have both given me entire satisfaction. I hope to repeat my order for both these next season." Mr G. P. GOODALL, Whelpley Hill (Hertfordshire)

Nothing to Equal them!!

"I cannot speak too highly of your improved Breed of 'Hardy Green Globe' Turnip. For quality, shape and bulk of crop, I have never had anything to equal them. The crop also has been most uniform throughout, and it is my intention to grow a larger acreage of this variety next year."

Mr. W. R. FLOWER (West Stafford)

Heavy Croppers and Good Keepers!!

"You will be pleased to hear that I have been most successful with your Improved Breed of 'Hardy Green Globe' Turnip. During the past two years they have proved not only to be heavy croppers but good keepers."

Mr C. BRYANT, Berwick, Bridport (Dorsetshire)

Produced an Enormous Lot of Feed!!

"We cannot speak too highly of your Improved Breed of 'Hardy Green Globe' Turnip. It produced an enormous lot of feed, and the bulbs kept well into February. Both Cows and Sheep did exceptionally well on them."

MESSRS. HORRELL BROS., Manor Farm (Northamptonshire)

Photograph of Gartons' Improved Breed of Hardy Green Globe Turnip

GARTONS' Improved Breed of HARDY GREEN GLOBE TURNIP

The most valuable and most popular of all the White-fleshed Turnips. The Roots, which attain a large size, are handsome in shape and uniform in appearance, whilst the flesh is very solid in texture and of most nutritious quality.

90

Price: 1s 3d per lb.

GARTONS' Improved Breed of MAMMOTH PURPLE-TOP TURNIP

A large growing turnip coming quickly to maturity, thus rendering it very suitable for late sowing.

91

Price: 1s 2d per lb.

92 Gartons' Selected Lincolnshire Red Globe Turnip—A fine true stock. Price: 1s per lb.

93 Gartons' Selected Devonshire Grey Stone Turnip—A very productive variety of rapid growth.

Price: 1s 2d per lb.

94 Gartons Selected Early White Stone or Stubble Turnip—A beautifully-shaped and juicy variety.

The earliest of all White Turnips for late sowing. Price: 1s 2d per lb.

95 Gartons' Selected Green Globe Turnip—Price: 1s per lb.

96 Garton' Selected Pomeranian White Globe Turnip—Invaluable for early feeding, producing a large bulky crop in a short space of time. Price: 1s per lb.

"The 'Pomeranian White Globe' Turnip which I had from you last year has done exceptionally well. Although I have grown this for many years I may safely say that I never had them so good as those from your Seed." Mr. A. DOOKS, North Dalton (Yorks)

WRIGHT, STEPHENSON & CO. LTD.

“CHALLENGE” SEEDS

“Challenge” White-Fleshed Turnips...

All of Proved Germination.

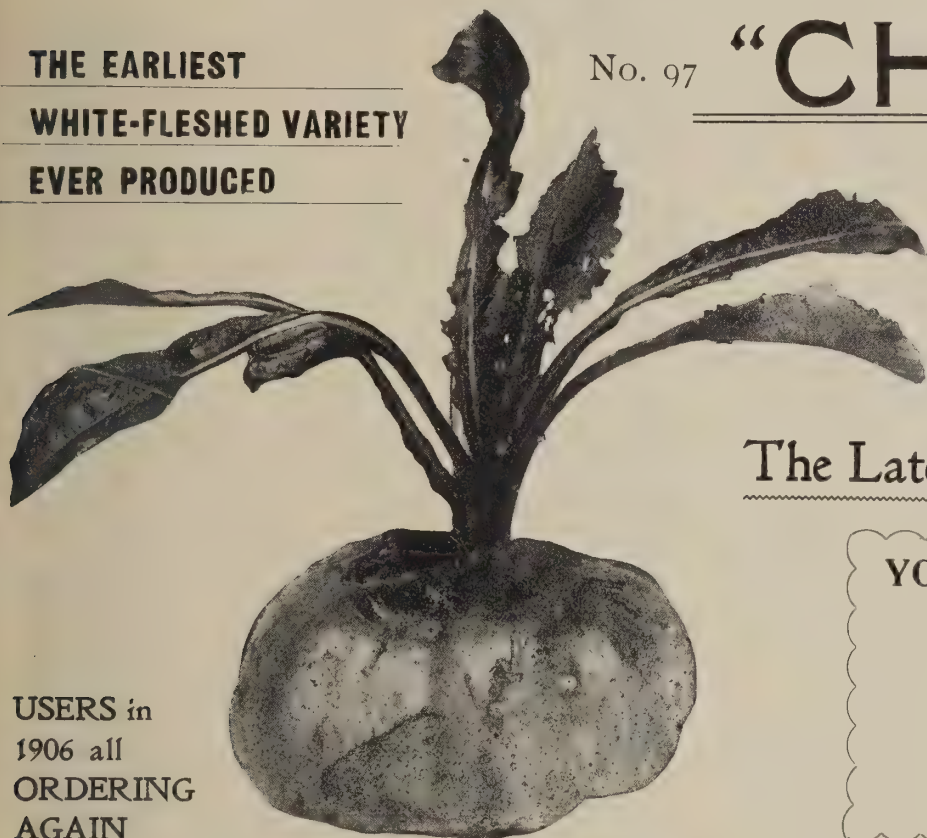
THE EARLIEST
WHITE-FLESHED VARIETY
EVER PRODUCED

No. 97

“CHALLENGE”

EARLY MARVEL

The Latest Success in Turnips....



USERS in
1906 all
ORDERING
AGAIN

EARLY MARVEL. From a Photograph

YOU SHOULD TRY IT...

For Early Lamb Feed

For Feeding off in November

For Eating off 5 WEEKS after Sowing

For Sowing Down with your Grass

For a Catch Crop



PRICES—Under 7 lbs ...	4/- per lb	28-lb Bag ...	2/9 per lb
7-lb Bag ...	3/3 „	56-lb „ ...	2/6 „
14-lb „ ...	3/- „	112-lb „ ...	2/3 „



98 **Lincoln Red Globe.**

A first early, heavy cropper, good lamb feed March feeding Price, 10d per lb

99 **Mammoth Purple Top.**

A first early, very heavy cropper and easily grown. Grows well out of the ground, and is suitable for sowing with Rape for lamb feed Price, 10d per lb

100 **White Stone Stubble.**

As its name implies is suitable for very late sowing, even on the stubble of an early harvested crop Price, 10d per lb

101 **Imperial Green Globe.**

A second early, suitable for April feeding. Enormous cropper and fine quality Price, 10d per lb

102 **Devon Greystone.**

A second early, suitable for April feeding. A favourite variety, sound and of good quality. Price, 10d per lb

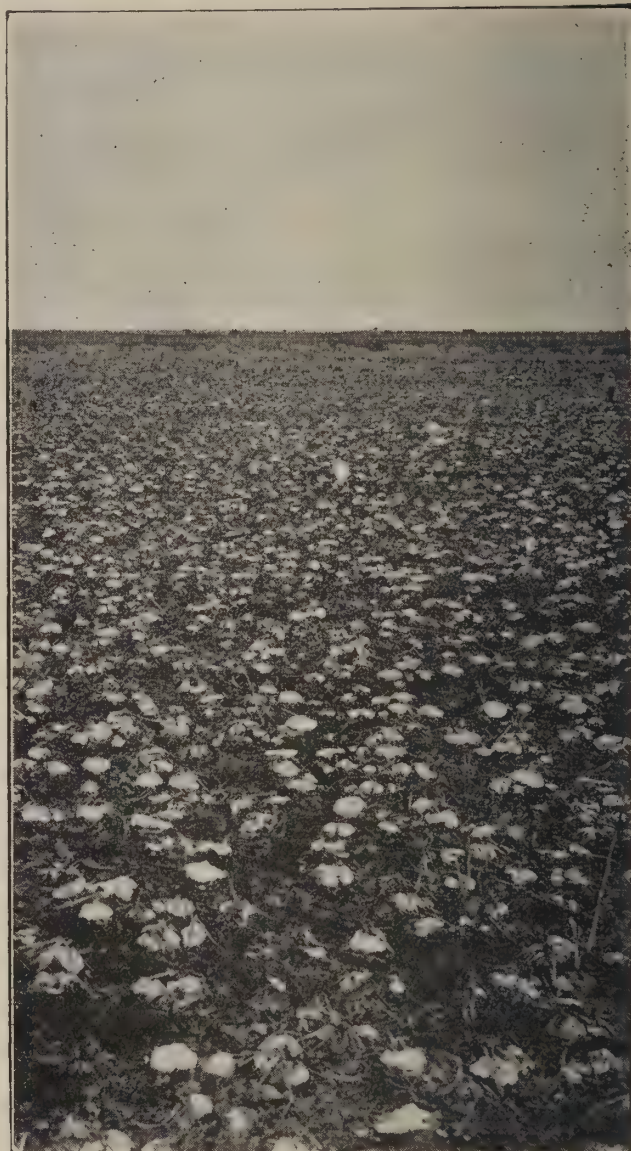
WRIGHT, STEPHENSON & CO. LTD.

GARTONS YELLOW TURNIPS

GARTONS' YELLOW-FLESHED TURNIPS...

All of
Proved Germination

THE GREEN & PURPLE-TOP SCOTCH
AND OLD MELDRUM VARIETIES
ARE THE MOST HARDY AND
POSSESSED OF LONG-KEEPING
QUALITIES



BROADCAST CROP. Gartons' Purple-Top Scotch, 9 oz. per Acre.

103 **Gartons' Improved Breed of Green Top Scotch Yellow Turnip.**

A handsome green top yellow attaining a large size and possessed of excellent feeding properties. Although large in size, it has a very hardy constitution, and will withstand severe weather better than any other yellow turnip. **Price, 1s 2d per lb.**

104 **Gartons' Selected Purple Top Scotch Yellow Turnip.**

A handsome growing turnip with yellow flesh and deep purple top, remarkably hardy, and possessed of excellent feeding properties. **Price, 1s 2d per lb.**

105 **Gartons' Selected Old Meldrum Green Top Yellow Turnip.**

A very fine stock of this favourite turnip. Although it does not attain so large a size as some of the other yellow varieties it is exceptionally hardy, and preference is given to it by many on this account. A great favourite with flock-masters. **Price, 1s 4d per lb.**

106 **Gartons' Selected Fosterton Hybrid Turnip.**

The largest type of the green-top yellow fleshed turnips. It produces large handsome roots of rapid growth, which makes it valuable for late sowing. The stock we offer is a very fine one. **Price, 10d per lb.; 90s per cwt.**

WRIGHT, STEPHENSON & CO. LTD.

GARTONS' YELLOW TURNIPS

- 107 **Gartons' Selected Yellow Tankard Turnip.**
A large-growing tankard-shaped yellow fleshed turnip of remarkably rapid growth. On account of it standing well out of the ground it is specially adapted for sheep-folding for which purpose it is largely grown. **Price, 1s 4d per lb.**
- 108 **Gartons' Selected Centenary Turnip.**
A large-growing pale yellow turnip with distinctly russeted skin. Will yield a heavier crop than Aberdeen green top yellow, but is not so hardy. **Price, 1s 4d per lb.**
- 109 **Gartons' Selected "Inches" Bronze Top Yellow.**
A heavy cropping yellow fleshed turnip with a deep bronze purple top. **Price, 1s 5d per lb.**
- 110 **Gartons' Selected Early Sheep-fold Green Top.**
One of the most rapid growing varieties of yellow turnips, and consequently comes to maturity fully four to six weeks before the Aberdeen varieties. The root is very perfect in form having a vivid green top and white earth line. One of the most useful varieties for autumn and early winter feeding. **Price, 1s 5d per lb.**
- 111 **Gartons' Selected Michaelmas Yellow Purple Top.**
An early yellow variety, very sound and nutritious roots, nice even shape and good cropper. **Price, 1s 5d per lb.**
- 112 **Gartons' Selected Stobo Blue.**
For weight of crop and general excellence of quality, this turnip is hard to beat. It is very hardy and most suitable as a mid-winter variety. **Price, 1s 5d per lb.**

100 Bushels

Per Acre

Are quite common from
GARTONS' NEW BREEDS OF
OATS

Try GARTONS'...

New & Improved Breeds of

WHEAT

BARLEY AND

OATS

THEY INCREASE
YOUR YIELDS & YOUR PROFITS

Read Pages 47 to 64.

126 Tons of

MANGELS

Per Acre

This was the
FIRST PRIZE CROP
in the
MASTERTON A. & P.
FIELD COMPETITION
1907
Grown from
GARTONS'
IMPROVED LONG
RED MANGEL

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" SEEDS

Challenge

Yellow=Fleshed

Turnips....

ALL OF
PROVED
GERMINATION.



OUR SEED is
SELECTED by Our
Own Representative
from the
Best Stocks in
Britain

Yellow Tankard Turnips Grown by Mr. GEO. SIMPSON, West Plains.

When selecting the most suitable seeds for your needs, bear in mind that

WAITE'S ECLIPSE AND THE GREEN & PURPLE-TOP ABERDEENS

are the most hardy and possess the best keeping qualities. The HYBRIDS and the ROMNEY MARSH are heavier croppers and come to maturity earlier, and, consequently, are best suited for Autumn and Early Winter Feeding. The YELLOW TANKARD is a heavy cropper and a good keeper.

113 Aberdeen Green-Top Yellow.

This is the best keeping Turnip ever yet introduced, and compares very favourably with the Swede in keeping qualities. It is a heavy cropper, and very fine quality. Can be fed off well into August. **Price, 1s per lb.**

114 Aberdeen Purple-Top Yellow.

This variety produces a rather larger root than the Green-top; but it is slightly inferior to the Green-top in hardiness and keeping quality. Valuable for end July feeding. **Price, 1s per lb.**

115 Waite's Eclipse.

This variety will compete with the Green-top Aberdeen in every way. It is a heavy cropper, and produces roots of firm, hard texture and splendid quality. Can be utilised for July-August feeding. **Price, 1s per lb.**



116 Yellow Tankard

The chief point about this variety is its long tankard shape, as shown by the photo on preceding page. The roots take firm hold of the ground, and can be fed off with a minimum of waste. The bulb is firm and hard, and a good keeper. **Price, 1s per lb.**

117 Fosterton Hybrid.

This is the largest type of the Green-top yellow-fleshed Turnips. The roots are of beautiful shape, and of rapid growth. It matures a month to six weeks earlier than the Aberdeens, and is consequently valuable for late sowing. Suitable for June feeding. **Price, 1s per lb.**

118 Dale's Hybrid.

A quick growing root of large size and good quality. Matures early, and is consequently useful for late sowing. June feeding. **Price, 1s per lb.**

119 Romney Marsh.

This is about the earliest of the yellow-fleshed Turnips, is easily grown, deep in form, attains great size, with firm, dense flesh. The green russeted skin is a feature of the variety. Suitable for May feeding. **Price, 1s per lb.**

You Want THREE THINGS

To make Certain of a Good Crop of Turnips!!

1st. Good Seed (that's "CHALLENGE")

2nd. Well-worked Soil

3rd Good Manure, and Manure which suits your . .
particular Soil. We offer herein 25 different
Brands for every possible class of Soil.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SWEDES

GARTONS' NEW BREED OF...

TURNIP-SWEDE

"PIONEER"

QUALIFICATIONS

**Robust and Vigorous
Constitution**

**Flesh, Texture of
Swede, Firm and
Juicy**

**Bulbs, Large and
Handsome**



Photograph of Gartons'
New Breed of Turnip-
Swede "PIONEER"

PEDIGREE:

Scotch Green-Top Turnip (Yellow-Fleshed)

Purple-Top Swede (Yellow-Fleshed)

Mammoth Purple-Top Turnip (White-Fleshed)

"PIONEER"

In appearance this takes more of the character of the Swede, but has the quick and vigorous growing habit of the Turnip. The skin is of a bright purple colour, the bulbs being globular in shape, and the foliage robust and vigorous with distinct purple coloured leaf-stalks. In districts where land will not carry crops of Swedes, "PIONEER" will be found to produce maximum crops of bulbs equal in quality and keeping properties to the finest Swedes, but possessing the rapid growth of Turnips. To distinguish this from other forms of Turnips and Swedes we have classified it under the heading of "Turnip-Swede."

HAS BEEN AWARDED

Six First Prizes

AND

Silver Cup

AGAINST STRONG
COMPETITION.

120 **Price: 2s per lb.**

BRITISH TESTIMONIES:

STRONG HABIT.

"Gartons' new breed of 'Pioneer' Swede has, in spite of the unfavourable season, produced a very good crop, which I think must be due to it having been bred between a Swede and a Turnip. Its strong habit was noticed from the very beginning, and it continued to lead throughout. I intend growing a larger quantity of this variety next year." Mr. R. R. HILLYARD, Cotton, Tadcaster, *Yorkshire*.

NEVER HAD SO VIGOROUS A SWEDE.

"I have much pleasure to inform you that the 'Pioneer' Turnip-Swede I had from you last Spring has done remarkably well for me. Although the early part of the season was most unfavourable, I had a very heavy, sound crop, quite 40 tons to the statute acre. I have grown Swedes for over 30 years, and have won numerous Prizes, but have never had so vigorous and determined a crop as your New Breed of 'Pioneer.' The bulbs are also finely shaped and beautifully coloured." Mr. W. COTTAM, Oxcliffe Hill, *Lancaster*.

GIVEN GREAT SATISFACTION.

"I am pleased to say that your New Breed of Turnip-Swede, 'Pioneer,' has given me great satisfaction. My crop yielded quite 40 tons per acre, and the quality was of the very best." Mr. J. D. HOLBROOK, Cheapside, *Nottinghamshire*.

AWARDED FIRST PRIZE.

"The New Turnip-Swede, 'Pioneer,' which you supplied me with has produced a splendid crop. The bulbs are the most perfect in shape that I have ever grown, and you will be pleased to hear that I was awarded First Prize with it at the Woodstock Agricultural Association's Show." Mr. J. HARRISON, Kidlington, *Oxfordshire*.

THE BEST KIND TO GROW.

"Your New Breed of Turnip-Swede, 'Pioneer,' has proved exceedingly satisfactory. I have grown a most excellent crop of perfect shaped roots. I consider this by far the best kind to grow, and I shall most certainly sow a much larger area next year." Mr. J. J. TOWSE, West Chilington, *Sussex*.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SWEDES

GARTONS'

New Breed of Swede

**Richer in Saccharine than any other Swede!
Minimum Percentage of Indigestible Fibre!!**

"SUPERLATIVE"

USE.....

GARTONS'

NEW BREEDS of

WHEAT
OATS and
BARLEY



GARTONS'
LATEST
SWEDE

Photograph of Gartons' New Breed of "Superlative" Swede.

PEDIGREE:

Monarch (Tankard-Shaped)

Best of All (Globe-shaped)

"SUPERLATIVE"

A new and very distinct type of Swede embodying the excellent properties of both parents. The leaf stalks are remarkably short, and the neck (which in some Swedes is long and serves a useless purpose) is almost absent in "SUPERLATIVE." This at once does away with all superfluous waste, and the energy employed in the production of the plant is therefore concentrated into the bulb, the result being that both "size" and "quality" are practically assured. In shape, "SUPERLATIVE" takes after both parents, the bulbs being nearly as long as those of "Monarch," but with a much better "body," which is inherited from "Best of All." The colour of the skin is very distinct, being of a purplish-pink colour, and the quality, as already indicated, is of the highest order.

121 **PRICE: 3s. 3s. per lb.**

British Testimonies:

- "Your New Breed of 'Superlative' Swede is such as we can speak of in the highest terms. Our crop of same, last year, was all that could be desired. The bulbs were particularly handsome in appearance with very solid flesh, as you will see by those which we had the pleasure of sending to you." Messrs. E. COCK & SONS, Red Bank, Bolton-le-Sands, *Lancashire*.
- "Your New Breed of 'Superlative' Swede has produced a splendid crop, and gentlemen who have visited my farms say that it excels anything grown for miles around here. I have also grown your New Breeds of black and white oats for a number of years with very great success." Mr. WM. SMITH, The Abbey Fields, *Nottinghamshire*.
- "Your New Breed of 'Superlative' Swede is one which, I feel sure, when better known, will be extensively cultivated. The bulbs are large and handsome, and of excellent quality. Altogether this is the most distinct Swede I have ever seen." Mr. S. A. HERON, East Harptree Court, Bristol, *Gloucestershire*.
- "I am greatly pleased with your New 'Superlative' Swede, which I consider is another good proof of your excellent system of Plant Breeding. This New Breed is more distinct than anything else I have seen, and for general purposes it leaves nothing to be desired." Mr. H. HEATH, Home Farm, Dunston, *Staffordshire*.
- "The Garton 'Superlative' Swede, which I have grown this year, has pleased me very much. The bulbs are large and handsome in appearance, and altogether this is certainly the best Swede I have ever grown." Mr. F. G. CARTER, Gold Bridges, Southminster, *Essex*.

Use "Challenge" Manures.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SWEDES

GARTONS'

IMPROVED BREED OF SWEDE

"MODEL"



Awarded Leading Prizes

in 1905, including

FIRST PRIZE for the Best Crop of Swedes
in 10 different Counties in Britain

FIRST PRIZE for Swedes at 20 of the.....
Leading Shows

**The
Most
Popular
Swede
in
Cultivation**

Photograph of Gartons' Improved Breed of "Model" Swede, pulled from a field crop in Shropshire.

122

Price: 1s 9d per lb.

A magnificent clean-growing Swede of a roundish globular shape, with clear, bronzy, purplish tops. Being possessed of properties which enable it to grow rapidly, it attains its full maturity earlier than other Swedes, and also invariably resists Finger and Toe and other similar diseases. The quality is also of a very high standard, and in point of constitution it is remarkably hardy. It has been rightly described as "the most popular Swede in cultivation," a statement which is fully borne out by the large number of Prizes which have been awarded to it, a few of which are enumerated hereon.

GARTONS' Improved Breed of Monarch Swede

AWARDED MANY

First Prizes at Leading
Competitions, including:

FIRST & SPECIAL PRIZE for the Best 2 acres
Swedes in the Preston District of
Lancashire.

THE FIRST PRIZE

Offered by the Staffordshire Agricultural Society.
Offered in the Bishop's Castle Division of Shropshire.

For the **HEAVIEST SWEDES**, at Ousley (Cumberland) Agricultural Show.

For the **BEST QUALITY OF SWEDES**, at Ousley (Cumberland) Agricultural Show.

Offered at the Newton (Montgomeryshire) Agricultural Show.

A handsome Tankard-shaped Variety which grows to an immense size and produces remarkably heavy crops.

The skin is of a deep purple top with rich yellow flesh, highly nutritious in quality.

123

Price: 1s per lb.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SWEDES

Gartons'

IMPROVED BREED OF SWEDE

"KEEPWELL"



AWARDED

Two Champion Prizes
OF £30 EACH, also

One Champion Prize
OF £10, also

Photograph of Gartons' Improved Breed of Swede, "Keepwell"

FIRST PRIZE for the Best 2 Acres of Swedes in the Claverly District of Shropshire
FIRST PRIZE for Best Crop of Swedes in the Ross District of Herefordshire
FIRST PRIZE for Best Crop of Swedes in the Raffort Division of Lancs.
FIRST PRIZE and SILVER CUP, Audlem (Cheshire) Show
FIRST PRIZE, East Stirlingshire, Scotland
FIRST PRIZE, Penrith, Cumberland
FIRST PRIZE at the Bromsgrove (Worcestershire) Agricultural Show

124

Price: 1s 9d per lb.

An exceptionally clean-growing, handsome Swede of globular shape, with skin of a bronzy-greenish colour. Its rapidity of growth and hardy constitution render it particularly suitable for cold, heavy lands, where it attains great perfection. The flesh is very solid and nutritious, and being remarkably hardy it keeps longer than most other varieties.

GARTONS'

IMPROVED BREED OF SWEDE

"CROPWELL"

This valuable Swede is particularly adapted for districts where crops are likely to be attacked with mildew or Finger and Toe. In shape it is semi-tankard, with a deep purple skin, whilst the flesh is very solid and nutritious. It is adapted for all classes of soils, and being possessed of rapid growing properties, it is valuable for late sowing.

This Valuable Swede
was Awarded

FIRST PRIZE & SILVER CUP

At the United East
Lothian Competition

Also a SPECIAL FIRST PRIZE for the Best Crop of Swedes in North Devon.

125

Price: 1s 6d per lb.

Full Selections of Gartons' Seeds Always on Hand.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SWEDES

GARTONS' Selected

"Green Tankard Swede"

An exceptionally handsome tankard-shaped Swede, with green tops slightly tinged with bronze. It is possessed of a very hardy constitution, and produces a heavy crop of roots of excellent quality, and which keep well. The long tankard shape will always give this variety an advantage over the globe sorts for feeding off.

126

Price: 1s 6d per lb.

GARTONS' Improved Breed of Swede

127

**Price:
1s 2d per lb**

"PERFECTION"

A valuable Purple-top Swede, of a globular shape, producing a heavy crop of nice clean bulbs, which are of handsome appearance, and remarkably free from superfluous roots. Highly recommended as a good main-crop variety, and specially adapted for medium and heavy soils.

Important Testimony from Dorsetshire—

"In the course of a life-time I have grown Swedes from seeds supplied by many firms, but none have given such excellent results as **Gartons' Improved Breed of 'Perfection.'** This is a very shapely bulb, not coarse nor running to neck, and with solid flesh. Altogether I consider 'Perfection' the best Swede that a farmer can grow for sheep or cattle." Mr. WALTER MANFIELD, Wooth Grange, Bridport.

Awarded Several Important **FIRST PRIZES** At Leading Competitions

.....INCLUDING.....

FIRST PRIZE, Monmouth

FIRST PRIZE, Keswick (Cumberland)

FIRST PRIZE, Leeds

FIRST PRIZE, Melplash (Dorsetshire)

FIRST PRIZE at Llangattock (Monmouthshire)

Gartons' Seeds at the Smithfield Show, London.

"Messrs. Gartons Limited, the well-known Seed Experts and growers, of Warrington, make an interesting show. Messrs. Gartons are, this year, offering for the first time a distinct new breed of black oat named 'Rival,' which they claim to be the earliest oat in cultivation. This new breed has been analysed by Mr. John Hunter, of Edinburgh, whose certificate shows that it has a thinner husk than any other breed, whilst the groat or kernel is also of an exceptionally high standard. At the Edinburgh Fat Stock Show this new breed won first prize in strong entries. The new breed of barley named 'Ideal,' which is a cross between 'Chevalier' and Gartons' new breed of 'Standwell,' which is claimed to give it the fine malting properties of the former combined with the heavy cropping properties of the latter, is also shown for the first time. A new and regenerated stock of 'Abundance' Oat is also exhibited, as well as a regenerated stock of the well-known 'Standwell' Barley, the latter of which was awarded first prize at Birmingham. It is also noteworthy that Messrs. Gartons' customers carried off the whole of the prizes in the Oat Classes at Birmingham. Of late years Messrs. Gartons have been giving great attention to roots. Their improved breeds of 'Large Yellow Globe,' 'Golden Tankard,' and 'Intermediate Mangels' all show a high order of merit; and their new and improved breeds of Turnips, including 'Model,' 'Cropwell,' 'Keepwell,' and 'Superlative' Swedes, as well as the distinct new breed of Turnip-Swede, 'Pioneer,' are all such as to attract attention."—Vide *Farmer and Stockbreeder*, December 4th, 1905.

Challenge Swedes.❁❁❁

A Heavy
Cropper.



Practically
Blight
Proof.

'CHALLENGE' PURPLE-TOP SWEDE.

The most desirable qualities of a Swede are blended in this breed to a marked degree—

- (A) The quality is the very highest, and consequently the feeding value is the best.
- (B) It grows an exceedingly heavy crop, which is unusual in a Swede of such good quality.
- (C) Swedes of really good quality are often hard to grow. "Challenge" Swedes, however, with ordinary treatment will give good results.
- (D) Nothing is more distressing than to see a good crop spoiled by the blight; therefore, as this variety is practically blight-proof, it must become a favourite.

128 **Price: 1s 6d per lb.**

129 **Champion Purple-top Swede.**

A very reliable and hardy variety. Well known in Otago and Southland. Grows a heavy crop of good quality. **Price, 1s per lb.**

130 **Elephant Swede.**

A semi-tankard shaped root, producing an enormous crop on heavy deep land. **Price, 1s per lb.**

131 **Crimson King Swede.**

A rapid growing Swede, and consequently should be selected by those who have the misfortune to sow late. Grows a heavy crop of purple-top tankard-shaped roots. Is best fed off about July. **Price, 1s per lb.**

132 **Taite's Best of All.**

A good useful Swede of fine quality, producing a heavy crop of good quality roots. **Price, 1s per lb.**

133 **Skirving's Purple-top.**

A very reliable Swede, practically blight-proof. **Price, 1s per lb.**

WRIGHT, STEPHENSON & CO. LTD.

GARTONS MANGELS

MANGELS...

The cultivation of this valuable plant is not carried on in New Zealand to the extent it might be, although the acreage under this cultivation has considerably increased during the last few years.

The exhibits at our Winter Show clearly indicate that Mangels of the finest quality and size are now being grown in Otago and Southland.

The Mangel is capable of producing 100 tons per acre of roots superior to the Swede in quality. This enormous yield cannot be approached by any root crop, furthermore, if protected from the frost by pitting, the roots will keep into the middle of November. Sow in September or October, at the rate of 4lbs. per acre.

Like all other very highly developed plants the seed of pedigree plants carefully selected by a firm with the experience and reputation of GARTONS' will produce vastly superior crops, to seed selected by unexperienced unknown growers.

We offer only **Gartons' Improved Breed of Mangels.**

GARTONS'

Improved Breed of

Large Yellow-Globe Mangel



Grown by Mr. George Simpson, West Plains, Southland.

The Bulbs grow to an enormous size, and are remarkably uniform in shape, with shoulders free from coarseness, which is seen in many globe mangels, and with only a single tap root. The amount of foliage produced is in keeping with the size of the bulb, and the flesh is rich in saccharine matter.

A Remarkable Record for One Year!!

CHAMPION PRIZE, of £30 at Tattenhall (Cheshire)

FIRST PRIZE, Chester County Show

FIRST PRIZE, Liverpool Great Root Show

Also 42 Other FIRST PRIZES

Mr. George Peek, Western Hill, Lincolnshire, writes:

"That he gained FIRST PRIZE for the Best Crop in his district with a crop yielding the enormous weight of 86½ tons per acre, the bulbs being of excellent quality and fine texture."

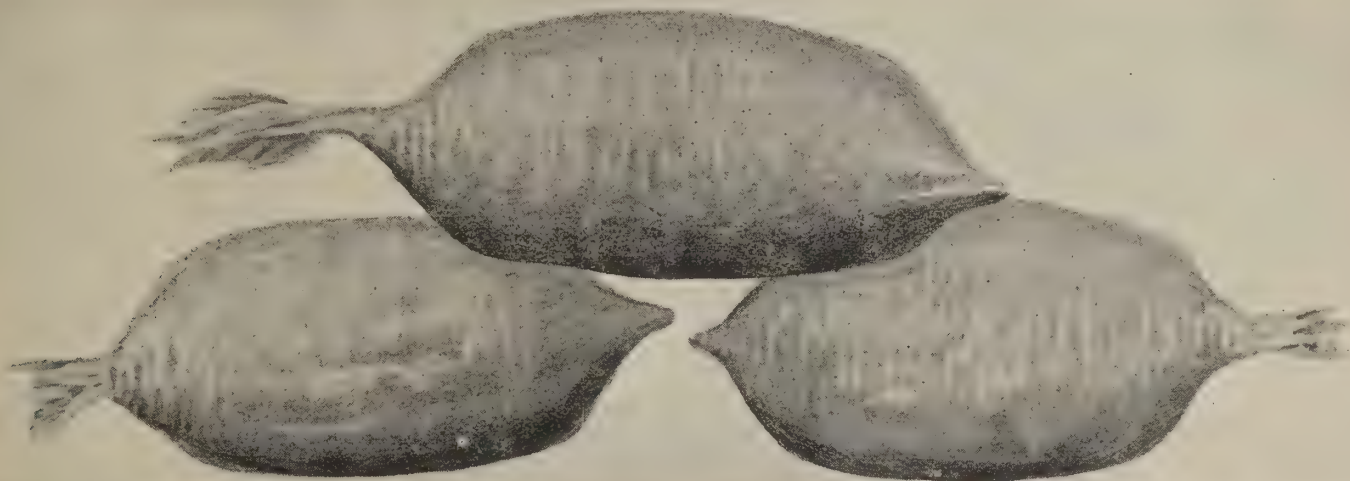
136

Price: 1s 9d per lb.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS MANGELS

GARTONS' Improved Breed of RED INTERMEDIATE MANGEL



Gartons' Improved Breed of Red Intermediate Mangel.

An improved breed of Red Intermediate, similar in shape to Garton's Yellow Intermediate, with exceptionally rich flesh, and possessed of long keeping qualities.

135 **Price: 1s 9d per lb.**

... BRITISH CUSTOMERS' TESTIMONIALS. ...

The Best Mangel ever Raised !

"It is only fair to tell you how well your New 'Red Intermediate' Mangel has done here, and I consider it is one of the best Mangels ever raised ; it is so clean and requires no dressing whatever, having only a single tap root. I gave part of my seed to a friend, who grew his Mangels for Exhibition, and he had no difficulty in winning First Prize, as well as a Medal, with this at his Local Show " MR. B. PARKER, Scotforth (Lancashire).

A Great Improvement upon the Old Variety !

"I have a very high opinion of your New 'Red Intermediate' Mangel, which I consider a great improvement upon the Old Long Red Variety. It is of much finer quality, cleaner, and well-shaped, and equally heavy in weight."—MR. J. BUERTON, Audlem (Cheshire.)

The Best of Any !

"The appearance of your New Breed of 'Red Intermediate' Mangel is much in its favour. This is sown along with four other varieties, and I must say I like the 'Red Intermediate' the best of any."—MR. W. MORRIS, Bridge Farm (Yorkshire).

An Excellent Cropper

"I am thoroughly satisfied with your 'Red Intermediate' Mangel. This has proved to be an excellent cropper, the bulbs being large with a single tap root, and of excellent quality."—MR. J. HOOKWAY, Town Farm (Devonshire).

Sound and Well-shaped Bulbs !

"Your New Breed of 'Red Intermediate' Mangel has produced an excellent crop of sound and well-shaped bulbs. I estimate the weight at about 86 tons per acre, and am altogether very pleased with them."—MR. WM. STUART, Eastwick (Herefordshire).

GARTONS' New Breed of

SUGAR MANGEL

A new and distinct breed, the result of a cross between "Sugar Beet" and "Long Red Mangel." It is Intermediate in type between these two, of a very solid flesh, and very rich in saccharine matter. Stock very limited. Per lb. 2s 3d.

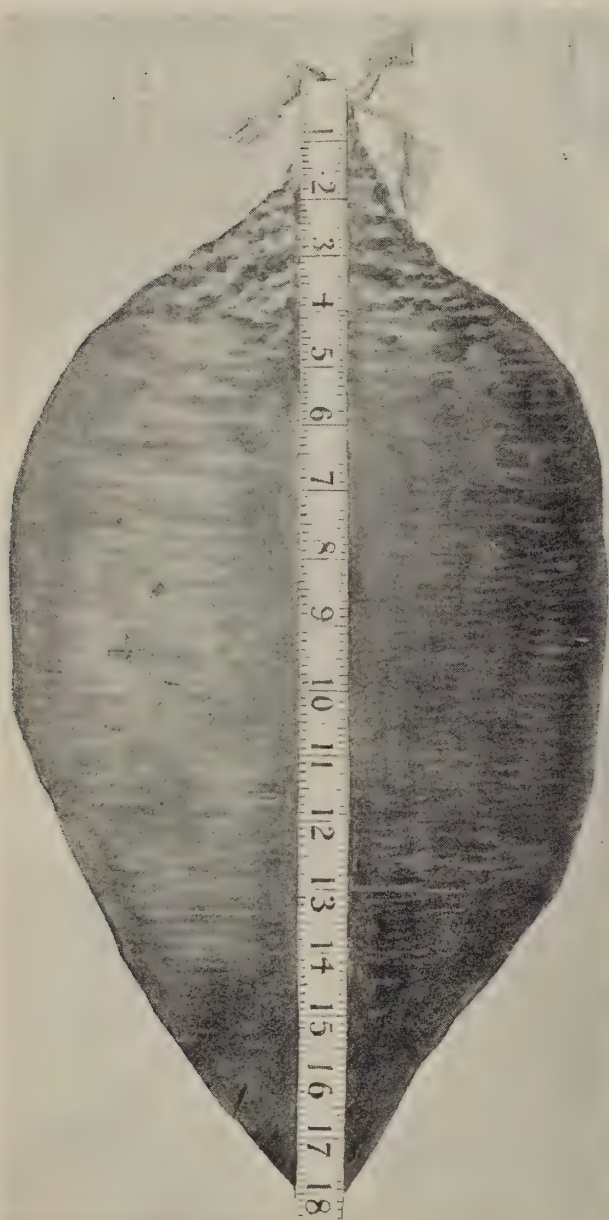
For GROCERIES, try WRIGHT, STEPHENSON & CO.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS MANGELS

GARTONS' Improved Breed of

LARGE YELLOW INTERMEDIATE MANGEL....



Photograph of Gartons' Improved Breed of Large Yellow Intermediate Mangel.

A greatly improved breed, with dwarf foliage and a single tap-root. This grows to an immense size and is remarkable for its uniformity in shape, freedom from coarseness, and rich feeding properties; and, unlike the ordinary Yellow intermediate varieties, this has a remarkably fine top and cleans to very little waste. Like the Golden Tankard variety this may be left closer in the rows than the Globe or Long Red Varieties.

137 **Price: 1s 6d per lb.**

British Customers' Testimonies.

"I am highly pleased with your Improved Breeds of 'Devon Red' and 'Yellow Intermediate' Mangels. The quality and cropping properties of both leave nothing to be desired." Mr. G. BANBURY, Twinyeo, Newton Abbot, *Devonshire*.

The best crop I have ever grown!

"Gartons' Improved breed of 'Large Yellow Intermediate' Mangel has produced the best crop I have ever grown. When taking them up they looked more like a marsh land crop than that produced on thin high wold." Mr. WILLIAM SKINNER, The Beeches, *Lincolnshire*.

The best crops ever grown!

"Your Improved Breeds of 'Golden Tankard' and 'Large Yellow Intermediate' Mangels have produced the best crops I have ever grown." Mr. W. BROWN, Porfel Lewyn, *Cornwall*.

True to type and of fine quality!

"I have now grown your Improved Breed of 'Yellow Intermediate' Mangel for several years past, always with most excellent results; the roots being true to type and of very fine quality. These roots have won several prizes for me at local Shows, and I find they keep well in clamp, improving in quality up to late in the Spring. For bulk, combined with good feeding qualities, they would be hard to beat." Mr. WALTER MANFIELD, Wooth Grange, Bridport, *Dorsetshire*.

Gained in 1906

FIRST PRIZES

At Leading
Competitions

WRIGHT, STEPHENSON & CO. LTD.

GARTONS MANGELS

GARTONS' IMPROVED BREED OF...

138

Price: 1s 6d per lb.

Golden Tankard Mangel



Gartons' Golden Tankard, grown by Mr. Geo. Simpson, West Plains, Southland.

An exceptionally well-bred Golden Tankard Mangel, producing a heavy weight per acre. The bulbs are very symmetrical in shape, with a deep orange skin and yellow flesh, which is exceptionally rich in saccharine matter. Although this does not attain to the same size as the larger growing varieties, the plants may be left closer in the rows, thereby materially increasing the weight per acre of the crop.

CUSTOMERS' TESTIMONIES.

Best Crops ever had!

"Your Improved Breeds of 'Golden Tankard' and 'Large Yellow Globe' Mangels have produced the best crops I have had for many years, and the other seeds you have supplied me with have also given the greatest satisfaction."—MR. LUTHER KNIGHT, Manor Farm.

Leaves nothing to be desired!

"I could not wish for anything better in the way of Mangels than your Improved Breed of 'Golden Tankard.' For size, symmetry, and quality it leaves nothing to be desired."—MR. ROBT. M. ROWLES, Lacock, Chippenham

Gartons' Improved Breed of

Devon Champion Yellow Globe Mangel

A fine selection of an elongated Yellow Globe Mangel with small top and single Tap Root. On account of its elongated shape this may be left rather closer in the rows, than the round type of Yellow Globe.

139

Price: 1s 3d per lb.

"CHALLENGE" Seeds Produce the Best Crops.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS MANGELS

GARTONS' Improved Breed of
MAMMOTH LONG RED MANGEL



Gartons' Improved Long Red Mangels, grown by Mr. Geo. Simpson, West Plains, Southland.

A remarkably fine breed of this popular Mangel, producing roots of immense size. In spite of their great size, they are very rich in feeding properties, and are not coarse in quality like the ordinary long Red Mangel.

This Breed Won FIRST PRIZE at the MASTERTON A. & P. FIELD COMPETITION, 1907, with **126 TONS PER ACRE.**

140 **Price: 1s 3d per lb.**

GARTONS' IMPROVED **Prize-Winner Yellow Globe**

A large growing Mangel producing a heavy weight per acre. The top is exceedingly small, and the Bulbs are rich in saccharine material.

141 **Price: 1s 4d per lb.**

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SEED GRAINS

To those who are Thinking of Using

GARTONS' SEEDS:

WHEAT
BARLEY
OATS
SWEDES
TURNIPS
MANGELS
CABBAGE
CARROTS

Please Note, we are able to
Record the Fact that the
following Prizes at 1907
Winter Shows were won by
Users of **Gartons' Seed**

Invercargill A. & P. Association Winter Show, 1907:

MAMMOTH LONG RED MANGEL	...	...	1	2	3	4
LARGE YELLOW GLOBE MANGEL	...	...	1	2	3	
GOLDEN TANKARD	...	...	1	2	3	
PURPLE-TOP SWEDE	...	...		2		
GREEN-TOP SWEDE	...	...	1	2		
12 SWEDES, ANY VARIETY	...	...	1	2		
HYBRID TURNIP	...	...		2		
WHITE-FLESHED TURNIP	...	...			3	
BEST COLLECTION	...	...			3	

Masterton A. & P. Association's Field Competition, 1907:

BEST CROP SWEDES, RAISED DRILLS	...	...	1st and 2nd
(Both Crops gained Maximum points for Quality.)			
BEST CROP SWEDES, FLAT DRILLS	...	...	1st, 2nd and 3rd
(The 2nd Prize gained Maximum Points for Quality, and the 1st and 3rd were only 1 off Maximum for Quality).			
BEST CROP MANGELS	1st Prize, with	<u>126½ TONS PER ACRE</u>	
(GARTONS' IMPROVED BREED of MAMMOTH LONG RED)			

Results of other Field Competitions not to hand when going to Press.

WRIGHT. STEPHENSON & Co. Ltd.

CHALLENGE SEEDS

FIELD CABBAGE.

It has been practically proved that Cabbage will produce a greater quantity of nutritious feed than can be produced by any other crop. Moreover, by judicious selection of varieties they can be brought in all the year round, and are relished by stock at all seasons except, possibly, in Spring, at which time the young grass appears to be preferred. With successional Cabbage cultivation more stock can be fattened per acre all the year round than by any other method.

For field culture on a large scale it has been found best to drill the seed with manure in preference to transplanting, as unless most favourable weather accompanies the latter operation, a great number of the plants may die, it not being possible to treat large areas similar to garden patches. Again, the drilling operation is by far the least expensive. For early Spring sowing, however, it is not always possible to get the ground into a fit state to sow, it is therefore then desirable to raise the plant in the usual way, and transplant.

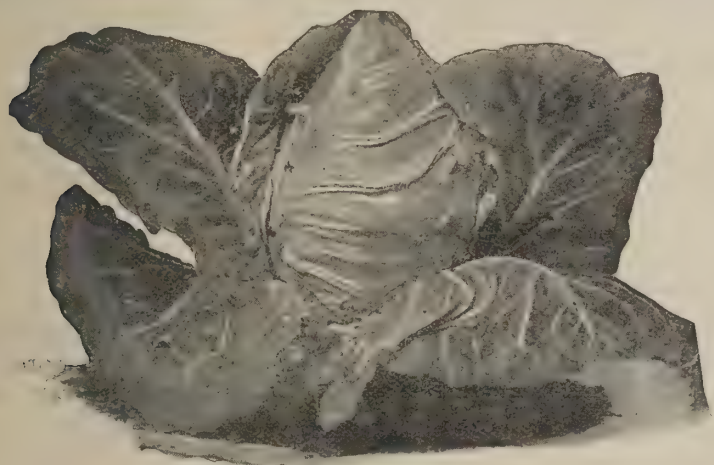
The following table will give an idea of the possibilities of Cabbage cultivation for stock feeding purposes with the addition of a little Mangel and Italian Ryegrass for Spring feed.

FOR FEEDING OFF		KIND TO SOW	TIME TO SOW
Early Spring Before growth is apparent	...	Savoy Cabbage	Previous Spring—October.
	...	Purple Sprouting Broccoli	" " "
	...	1,000 Headed Kale	" " "
	...	Pitted Mangles	" " early September.
Late Spring	...	1,000-Headed Kale	Previous Spring—late October.
	...	Purple Sprouting Broccoli	" Summer—November.
	...	Pitted Mangles	" Spring—September.
	...	Italian Ryegrass	" January—February.
Early Summer	...	Italian Ryegrass	Previous January—February.
	...	1,000 Headed Kale	" Autumn "
Late Summer	...	Large Drumhead	Previous Autumn—Feb., March.
	...	1,000 Headed Kale	" Autumn—Feb., March.
Early Autumn	...	Early Express Cabbage	Previous Spring—August, Transplant
	...	Early Drumhead	
	...	Early Ox Heart Cabbage	
Late Autumn	...	Large Drumhead	Previous Spring—September, Transplant
	...	1,000 Headed Kale	" " September, Transplant
Early Winter	...	1,000 Headed Kale	Previous Spring—Late September.
	...	Large Drumhead	" " "
Late Winter	...	1,000 Headed Kale	Previous Spring—October.
	...	Drumhead Savoy	" " "
	...	Purple Sprouting Broccoli	" " "

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" MANURES

GARTONS' FIELD CABBAGES.



Early Pointed Variety

Gartons' Selected Early Ox Heart.

- 142 An early and superior pointed variety, which attains a large size and possesses a remarkably solid and firm heart. In constitution it is perfectly hardy, and having very few outside leaves there is little or no waste. **Price, 4s per lb.**

Gartons' Extra Early Express.

- 143 The earliest Field Cabbage in cultivation, and for a first crop is unequalled. Although so early the heads attain a good average size, and the quality is all that can be desired. From seed sown in August or Sept., profitable crops may be had in the early Autumn months. **Price, 7s per lb.**

Gartons' Early Drumhead.

- 144 A superior type of Drumhead Cabbage, which reaches maturity when the ordinary varieties of its class are not more than half grown. The heads are remarkably solid and compact, producing very little waste. If the seed is sown in July or August, the crop will arrive at full maturity in the early Autumn months. **Price, 6s per lb.**

Gartons' Large Cattle Drumhead.

- 145 A popular large growing variety of remarkable solidity. Undoubtedly the largest type of Drumhead Cabbage in cultivation. **Price, 4s 6d per lb.**

Gartons' Selected Drumhead Savoy.

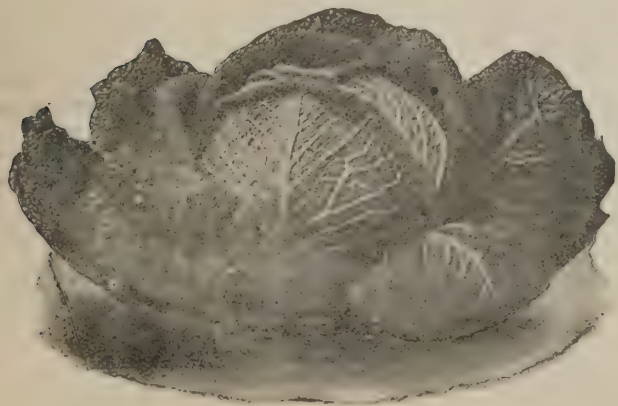
- 146 This is undoubtedly the hardiest type of Savoy in cultivation, and will remain for use well into the Spring months. Will stand well in exposed situations. **Price, 4s 6d per lb.**

Gartons' Selected Ormskerk Savoy.

- 147 An extremely hardy type of Savoy, which remains fit for use well into the Spring months. Will stand well in exposed situations. This seed is grown in the Ormskerk district of Lancashire. **Price, 9s 6d per lb.**

Garton's Selected Purple Sprouting broccoli.

- 148 Exceptionally hardy, and liked by many flock-masters as a change of food for sheep. **Price, 4s per lb.**



Small Savoy Cabbage.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SEED GRAINS

Gartons' Field Carrots.

All of Proved Germination.

Carrots generally prove to be profitable crop, especially on soils of a light sandy nature. They are invaluable food for all kinds of stock, particularly for horses. The following varieties can be strongly recommended.

149 Gartons' Selected Scarlet Intermediate Carrot.

A very fine selected type of Scarlet Intermediate Carrot, growing well into the ground; the shoulders are thus well covered and free from that waste often seen in other varieties. The flesh is of a rich scarlet colour, and the core is remarkably small. **Awarded First Prize at Liverpool and other Leading Shows.** Sow at the rate of 6 lbs. per acre. **Price, 6s per lb.**

150 James' Scarlet or Intermediate Carrot.

Extra fine selected stock. This variety being of medium length is well adapted for shallow soils. **Price, 4s per lb.**

151 Improved Altringham Carrot.

An extra fine selected stock of this large growing variety. **Price, 3s 6d per lb.**

152 Wiltshire Giant White or White Belgian Carrot.

An improved type of White Carrot producing an enormous crop of large handsome roots which are very solid and nutritious. **Price, 2s 6d per lb.**

153 Large Yellow Belgian Carrot.

A large growing handsome Yellow Carrot of fine rich quality. Extra selected stock. **Price, 2s 9d per lb.**

THOUSAND-HEADED KALE.



Photo taken early February. Kale on good land will grow to a height of 4 feet, and can always be eaten off two to three times.

GARTONS' IMPROVED 1000-Headed Kale.

This valuable forage plant still maintains its popularity in Britain, and to Flock-masters in particular, it has become almost indispensable. Its adaptation to almost every class of land, together with its simplicity of culture and enormous cropping properties, place it in the front rank of our forage plants. Owing to its hardiness of constitution it withstands the most severe frosts, and by successive sowings during the Spring and Autumn months it will maintain a continuous supply of green food all the year round. Drill the seed, at the rate of from 4 to 6 lbs. per acre. New seed of proved germination.

154 Price, 1s 6d per lb.

Ordinary Thousand-headed Kale.

155 Price, 1s 2d per lb.

GARTONS' KOHL RABI. . . .

- 156 **Gartons' Improved Large Green Kohl Rabi.**—Kohl Rabi has been known to withstand drought where turnips have failed for want of moisture, and it has generally been found to thrive on turnip-sick land. The seed is generally drilled in rows 18 to 24 inches apart, and cultivated in the same way as turnips. New Seed of proved germination 3s 6d
- 157 **Gartons' Improved Short-top Kohl Rabi**, a distinct and small leaved variety of very superior quality. It also comes earlier to maturity than the large green variety. New seed of proved germination . . . 4s 6d



Kohl Rabi



Rape.

The most nutritious green feed that can be grown. For fattening Lambs it cannot be surpassed. Owing, however, to the strength of its feeding qualities, Lambs are sometimes inclined to sour. To prevent this, a small daily ration of dry food, such as chaff or crushed oats, will be very beneficial.

- 158 **Broad-leaf Essex** 5d per lb
159 **Gartons' Selected** 6d „

Beans (*Common Horse Beans*).

Should follow wheat or barley. Winter varieties should be sown in good time to allow them to become established before winter frosts. With spring varieties, Bean setting should be the first operation in Spring. Seeding, 3 bushels per acre.

- 160 **PRICE** Market Price.

Peas (*Field Varieties*).

For fattening pigs and general feed purposes cannot be surpassed. The straw is extremely useful for feeding sheep on turnips, simply putting into racks.

- 161 **Partridge Peas** Market Price
162 **Prussian Blue**, suitable for table use „ „

White Mustard.

A useful forage plant. Can be used as a catch crop. Sow broadcast on a stubble and harrow in; grows very rapidly and produces a good autumn growth. It is also a good preparation for Wheat, especially on ground bad with wire-worm, to which pest it is particularly objectionable. Seeding per acre, 20 lb.

- 163 **PRICE** 6d per lb

Rye Corn.

Sow in autumn alone or with Tares, produces excellent spring feed. Can be eaten down three or four times, if kept heavy enough stocked to prevent the seed stock growing.

- 164 **PRICE** Market Price

Tares.

Sow in conjunction with Barley or Rye in autumn for spring forage, or spring for summer feed. Only occupies ground for a short time, and can therefore be used for catch crops.

- 165 **Scotch** 7s 6d per bushel
166 **English** 7s 6d „
167 **Golden** 7s 6d „

SEED POTATOES.....

We offer below a selection of Potatoes, some of which are grown for us by contract and others, again, have been secured from the best growers in the district. We carefully select and pick over all seed before delivery, and customers may rely in securing seed of best quality, true to name.

State if Large or Medium Seed required.

Try "CHALLENGE"
Potato Manure

Prices Vary according to Market Fluctuations.

First Early.

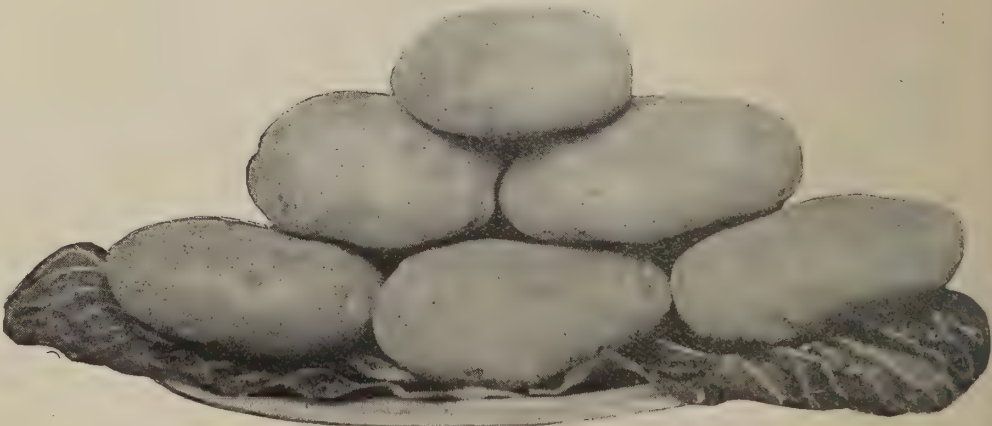
		14lb	28lb	56lb	Cwt
168	Sparks' Victoria— Round, pink	2/6	4/6	8/-	12/-
169	Early Rose— Oval, pink	2/6	4/6	8/-	12/-
170	British Queen - Oval, white	2/6	4/6	8/-	12/-
171	Early Vermont— Oval, red skin	2/6	4/6	8/-	12/-
172	White Hebron— Oval, white skin	2/6	4/6	8/-	12/-
173	Beauty of Hebron— Oval, pale pink	2/6	4/6	8/-	12/-
174	Ashleaf Kidney— White	2/6	4/6	8/-	12/-



White Hebrant



Blue Derwents.

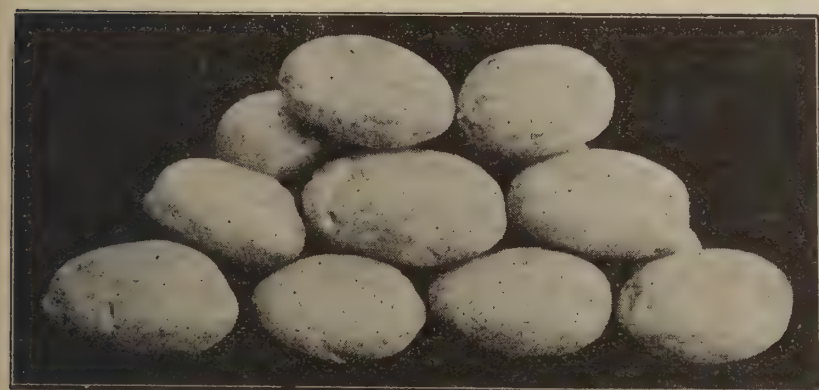


Up-to-Date.

SEED POTATOES



Bruce



Sutton's Discovery



Sparks' Victoria

Second Early.

	14lb	28lb	56lb	Cwt
175 Lapstone Kidney, white, heavy cropper	2/6	4/6	8/-	12/-
176 Breeze's Prolific, oval, white, rough skin, heavy cropper	2/6	4/6	8/-	12/-
177 White Elephant, one of the best Potatoes known, very heavy cropper, large size, boiling mealy and dry	2/6	4/6	8/-	12/-

Main Crop.

178 Sutton's Discovery, the greatest disease resister ever introduced. The seedling was raised from a cross made at Sutton's Experimental Ground between Sutton's Reliance and the Sutton Flourball. Messrs. Suttons say: "In the long list of potatoes originated and distributed by our Firm during the last half - century, never have we offered a seedling with such extraordinary powers of resisting disease as are manifested in Suttons' Discovery." Only a small quantity available. Order early if requiring any	2/- per lb.
179 Blue Derwents, one of the best potatoes ever put on the market; splendid keeper, always in demand	14lb 28lb 56lb Cwt 2/- 3/6 6/- 10/-
180 Abundance (Sutton's), rough skin, white flesh, oval shape, heavy cropper, fine quality	2/- 3/6 6/- 10/-
181 Up-to-date, one of the finest main-crop varieties ever produced; withstands disease and one of the heaviest yielding sorts known	2/- 3/6 6/- 10/-
182 White Derwents, white skin, pink eyes	2/- 3/6 6/- 10/-
183 Northern Star, the great yielder; round, rough skinned, white	2/6 4/6 8/- 12/-
184 Bruce, white skin, very heavy cropper and easily grown; superior	2/- 3/6 6/- 10/-
185 SKERRY BLUES (New Variety) great cropper, splendid keeper, one of the very best table potatoes known. Stocks limited. This variety is, so far, absolutely Blight-proof	7/6 13/6 25/- 45/-



WRIGHT, STEPHENSON & Co. Ltd.

"CHALLENGE" SEEDS

Garden Seeds

All of
Proved Germination.

VEGETABLES.

In 6d Packets.

GARDEN PEAS.

- Suttons'
187 Earliest Marrow.
188 Bountiful
189 Improved Ringleader
190 Selected American Wonder
191 Earliest Blue
192 Melbourne Favourite
193 Dwarf Marrow
194 Plentiful
195 Star of Australia
196 Prolific Marrow
197 Abundance
198 Late Green Marrow
199 Ne Plus Ultra

GARDEN BEANS.

- Suttons'
200 Improved Windsor
201 Green Windsor
202 Prolific Longpod
203 Emerald Longpod
204 Favourite Scarlet
205 Giant White
206 Selected Canadian Wonder
207 Negro Long Pod

ASPARAGUS.

- Suttons'
208 Perfection

GARDEN BEET.

- Suttons'
209 Blood Red
210 Globe
211 Market Favourite
212 Silver, or Sea Kale Beet
213 Spinach, Beet, or Perpetual Spinach

BORECOLE, or KALE.

- Suttons'
214 Extra Curled Scotch
215 Improved Branching

BROCCOLI.

- Suttons'
216 Superb Early White
217 Favourite
218 Maincrop White
219 Purple Sprouting
220 Perfection

BRUSSELS SPROUTS.

- Suttons'
221 Exhibition
222 Matchless

GARDEN CABBAGE.

- Suttons'
223 Earliest
224 Imperial
225 Favourite
226 Maincrop
227 Red Pickling
228 St. John's Day
229 Enfield Market
230 London Market
231 Dwarf Green Curled Savoy
232 Late Drumhead Savoy

CAPSICUM & CHILI.

- Suttons'
233 Mixed Capsicum
234 Mixed Chili

CELERY.

- Suttons'
235 Ivory White
236 Perfection Pink

CARROT.

- Suttons'
237 Early Gem
238 Early Short Horn
239 Favourite
240 New Red Intermediate
241 Scarlet Intermediate
242 Long Red

CRESS.

- Suttons'
243 Selected Plain
244 Selected Curled

CAULIFLOWER.

- Suttons'
245 Early Walcheren
246 Early London
247 Autumn Mammoth
248 Late Giant

CUCUMBER.

- Suttons'
249 Telegraph
250 Market
251 Prolific Ridge

ENDIVE.

- Suttons'
252 Extra Green
253 Curled
254 Round Leaved
255 Batavian

GOURD, or PUMPKIN.

- Suttons'
256 Mixed
257 Turk's Cap
258 Ohio Squash
259 Hubbard Squash

HERB SEEDS, &c.

- 260 Basil, Sweet
261 Basil, Bush
262 Borage
263 Cherville, Curled
264 Horehound
265 Lavender
266 Marjoram, Pot
267 " Sweet Knotted
268 Rosemary
269 Rue
270 Sage
271 Savory, Summer
272 Savory, Winter
273 Thyme, Common
274 Tobacco

LEEK.

- Suttons'
275 Improved
276 Musselburgh

MUSTARD.

- Suttons'
277 Selected White
278 Selected Brown

PARSLEY.

- Suttons'
279 Imperial Curled

COS LETTUCE.

- Suttons'
280 All Heart
281 Giant White
282 Black-seeded Bath

CABBAGE LETTUCE.

- Suttons'
283 A 1
284 All the Year Round

PARSNIP.

- Suttons'
285 Student
286 Hollow Crown

MELON.

- Suttons'
287 Matchless Green-f'ish'd
288 Matchless White-f'ish'd
289 Matchless Sc'rl't-f'ish'd
290 Water Melon, mixed varieties
291 Preserving, or Pie M'n

VEGETABLE MARROW.

- Suttons'
292 Long Cream
293 Long Green
294 White Bush
295 Finest Mixed

ONION.

- Suttons'
296 Improved Reading
297 Long-keeping
298 Giant Rocca
299 Silver Skin
300 White Spanish
301 Brown
302 Brown Globe
303 Beds Champion

RADISH.

- Suttons'
304 Early Scarlet Turnip
305 Early White Turnip
306 Mixed Turnip
307 French Breakfast
308 Mixed Oval or Olive
309 Long Scarlet
310 Long Rose

SEA KALE.

SUGAR CORN.

- Suttons'
312 Early Dwarf

SPINACH.

- Suttons'
313 Selected Round
314 Selected Prickly

TOMATO.

- Suttons'
315 Premium
316 Invincible
317 Yellow

GARDEN TURNIP.

- Suttons'
318 Early Snowball
319 Impr'v'd Orange Jelly
320 All the Year Round
321 White Stone
322 Green-top White
323 Early White Strap-lvd
324 Garden Swede
325 Early Milan

FLOWER SEEDS.

In 6d Packets.

Suttons'

- 327 Asters, Dwarf Bedder, Pure White
- 328 " " " Scarlet
- 329 " " " Rose
- 330 " " " Blue
- 331 " " " Mixed
- 332 " Comet, Mixed
- 333 " Reading Beauty, mixed
- 334 " Giant French, mixed
- 335 " Dwarf, mixed
- 336 " Tall, mixed
- 337 Abutilon, Selected, mixed
- 338 Acroclinium, Single Rose
- 339 Ageratum, Dwarf Blue
- 340 Agrostemma coronaria, selected, mixed
- 341 Alyssum, Sweet White
- 342 Amaranthus melancholicus, Bright Red
- 343 Anemone, Brilliant, mixed
- 344 Antirrhinum, Tall, mixed
- 345 " Dwarf, mixed
- 346 Aquilegia, Selected
- 347 Arabis, White Alpine
- 348 Auricula, Border, mixed
- 349 Balsam, Double, mixed
- 350 " Improved Miniature
- 351 Begonia, Fibrous-rooted, mixed
- 352 Calandrinia, Large-flowered
- 353 Calendula, pluvialis
- 354 " Double Orange
- 355 Campanula, pyramidalis, mixed
- 356 Canary Creeper, Golden
- 357 Canterbury Bells, Large-flowered, mixed
- 358 Canna, Large-flowering
- 359 Candytuft, Crimson
- 360 " White
- 361 " Mixed
- 362 Carnation, Double Border, mixed
- 363 " " Marguerite, mixed
- 364 Celosia, plumosa, mixed
- 365 Cerastium Biebersteinii
- 366 Chrysanthemum, Mixed Annual
- 367 " " Perennial
- 368 Clarkia, Pink
- 369 " White
- 370 " Mixed
- 371 Clematis flammula
- 372 Convolvulus, Mixed Climbing
- 373 " Dwarf, mixed
- 374 Cockscomb, Crimson
- 375 Coreopsis, Dwarf Crimson
- 376 " Dwarf, mixed
- 377 " Tall, mixed
- 378 " Large-flowered Yellow
- 379 Cornflower, Blue
- 380 Cornflower, Mixed
- 381 Cowslip, Mixed English
- 382 Cosmea bipinnata, mixed
- 383 Dahlia, Single, mixed
- 384 " Double, mixed
- 385 Daisy, Double, mixed
- 386 Delphinium, Large-flowered, mixed

Suttons'

- 387 Dianthus, Brilliant, Single, mixed
- 388 " " Double, mixed
- 389 Eschscholtzia, Single Yellow
- 390 " Rose
- 391 " " Mixed
- 392 Foxglove, Mixed English
- 393 Gaillardia, Large-flowered Single, mixed
- 394 " Double, mixed
- 395 " Special Mixture, double and
- 396 " single
- 397 Geranium, Large Single
- 398 Godetia, Large-flowered, mixed
- 399 " Scarlet Queen
- 400 Golden Feather, Selected
- 401 Helichrysum, Giant, mixed
- 402 Heliotrope, Large-flowered, mixed
- 403 Hollyhock, Double, mixed
- 404 " Single, mixed
- 405 Honesty, Large-flowered, mixed
- 406 Ice Plant, Selected
- 407 Jacobea, Double, mixed
- 408 Lantana hybrida, Finest, mixed
- 409 Larkspur, Dwarf, mixed
- 410 " Tall, mixed
- 411 Lavender, Sweet
- 412 Linum (Flax), Crimson
- 413 Lobelia, Compact Blue
- 414 " " White
- 415 " " Spreading Blue
- 416 Love-lies-bleeding, Red-flowered
- 417 Lupin, Annual, mixed
- 418 " Perennial, mixed
- 419 Maize, Striped
- 420 Mallow, Large Pink
- 421 Marvel of Peru, Brilliant-flowered, mixed
- 422 Michaelmas Daisy, Hybrid
- 423 Marigold, Miniature French
- 424 " Giant Double African
- 425 " Tall French
- 426 Mignonette, Giant
- 427 " Sweet-scented
- 428 " Cloth of Gold
- 429 " Spiral
- 430 Mimulus, Giant Mixed
- 431 Musk, Selected
- 432 Myosotis, Perfection
- 433 " Bedding
- 434 Nasturtium, King of Tom Thumbs
- 435 " Dwarf Yellow
- 436 " " mixed
- 437 " Tall Fairy Queen
- 438 " " Crimson
- 439 " " mixed
- 440 Nemesis strumosa, mixed
- 441 " Dwarf, mixed
- 442 Nemophila, Large-flowered Blue
- 443 Nicotiana affinis, Selected
- 444 Nigella, Double Dwarf

Suttons'

- 445 Pansy, Giant White
- 446 " " Yellow
- 447 " " Perfection, mixed
- 448 " " Bedding, mixed
- 449 Passion Flower, Blue
- 450 " " Scarlet
- 451 Perilla, Selected Bronze
- 452 Petunia, Single, mixed
- 453 Phlox Drum, Large-flowered White
- 454 " " " Scarlet
- 455 " " " mixed
- 456 Polyanthus, Giant, mixed
- 457 " " White
- 458 Portulaca, Large-flowered, mixed
- 459 Poppy, Double Giant, mixed
- 460 " Selected Shirley
- 461 " Iceland, mixed
- 462 Primrose, Brilliant, mixed
- 463 Ranunculus, Giant French
- 464 Rhodanthe, Large-flowered, mixed
- 465 Ricinus (Castor-oil Plant), Giant
- 466 Rocket, Sweet-scented
- 467 Rudbeckia, Golden Sunset
- 468 Salpiglossis, Giant, mixed
- 469 Salvia, Scarlet
- 470 Scabious (German) Large-flowered, mixed
- 471 Sensitive Plant, Selected
- 472 Stock, Ten-week, Giant Perfection
- 473 " Dwarf Bedding, in the
- 474 following colours :—
- 475 Scarlet Purple Mixed
- 476 White Yellow
- 477 Stock, Giant English Brompton, mixed
- 478 " " " white
- 479 Silene, Pink
- 480 " White
- 481 Sunflower, Giant Single
- 482 " Double
- 483 " Miniature
- 484 Sweet Pea, Large-flowered, mixed
- 485 " " " White
- 486 " " " Striped
- 487 " " " Scarlet
- 488 " " " Purple
- 489 " " " Pink
- 490 " " " Pale Blue
- 491 Sweet Sultan, mixed
- 492 " " " White
- 493 " " " Yellow
- 494 Sweet William, Harlequin
- 495 " " Large-flowered, mixed
- 496 " " Dark Crimson
- 497 Swan River Daisy
- 498 Verbena, Superb Bedding, mixed
- 499 Violet, Sweet-scented, mixed
- 500 Virginian Creeper, Selected
- 501 Virginian Stock, Special, mixed
- 502 Wallflower, Cloth of Gold
- 503 " Large-flowered Single, mixed
- 504 Zinnia, Large-flowered Double, mixed
- 505 " Single, mixed

Use "CHALLENGE" GARDEN MANURE.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" SEEDS

Merchandise Department.

Our business with our farmer friends is of a twofold nature—1st, we are prepared to buy for net cash the food products that he produces, and to sell by auction or privately all his other produce; 2nd, we are now equipped for supplying all that the farm or station requires, such as

Fencing and
Building
Materials

Shearing
Requisites

Sheep Dip

Implements

Harness

Saddlery

Horse and
Cow Covers

Groceries

Crockery

Hardware

Etc., Etc.



A Corner of the New Gore Merchandise Department.

We have conducted the Merchandise Department in Invercargill, Balfour, and Kelso for the last three years, and the success of the department at these branches, and the desire of our farming friends to deal with us has led us to open up Departments for General Merchandise in Dunedin, Gore, and Edendale. Our position in the export trade enables us to do this class of business to the very best advantage, as with the exception of a few lines the whole of the stocks are imported. The proceeds of our exports pay for the goods in London, and thus exchange is saved. Again, our London office is in direct touch with the manufacturers in Britain, America, and the Continent, there is therefore no middleman to pay, and lastly the requirements of our six branches are such, that our orders are sufficiently large to enable us to buy at rock-bottom prices. With all these advantages it is little wonder that our goods are of first quality and our prices a revelation. Each department of merchandise is in the hands of a specialist, who knows every requirement of the trade.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SEED GRAINS

...Hardware Department...

Galvanised Barb Wire

CATTLE and HOG.

English & American Slice Cut Fencing Staples

Galvanised Roofing Iron

5	6	7	8	9	10 feet
224	186	160	140	124	112 approximate sheets to ton

Rabbit, Sheep, & Poultry

Fencing Standards

Netting In all Sizes and Gauges.

Cut, Punched & Slotted to Any Gauge

APPROXIMATE WEIGHTS OF FENCING STANDARDS.

Length.		Width.	Breadth.	No. to Ton.	Number to Chain and Weight.						Number to Mi'e and Weight.					
					If 8 ft. apart.			If 9 ft. apart.			If 8 ft. apart.			If 9 ft. apart.		
					No.	WEIGHT.			No.	WEIGHT.			No.	WEIGHT.		
						cwt.	qrs.	lbs.		cwt.	qrs.	lbs.		cwt.	qrs.	lbs.
4	6	1 1/4	1/4	490	8 1/4	0	1	10	7 1/8	0	1	5	660	26	3	21
4	6	1 1/4	5/16	400	...	0	1	19	...	0	1	13	...	33	0	0
5	0	1 1/4	5/16	360	...	0	1	23	...	0	1	17	...	36	2	19
5	0	1 1/4	1/4	450	...	0	1	14	...	0	1	8	...	29	1	9
5	6	1 1/4	5/8	315	...	0	2	2	...	0	1	24	...	41	3	17

Building Material

We have Complete Stocks of

GALVANISED IRON or IRON TANKS
RIDGING, SPOUTING AND DOWNPIPE
GALVANISED CORRUGATED IRON

CEMENT AND LIME
DOORS AND SASHES
NAILS, LOCKS, RANGES, Etc.

WALLPAPERS!! WALLPAPERS!!

SCRIM
TAPE, Etc....

A VERY GOOD SELECTION OF THESE
AT BEDROCK PRICES

WRIGHT, STEPHENSON & CO. LTD.

“CHALLENGE” MANURES

GALVANISED and BLACK . . .

FENCING WIRE

ENGLISH, CONTINENTAL, and AMERICAN

A TABLE showing the different lengths of the different gauges of wire per cwt., etc.

Size of Gauge.	Weight of One Wire.			Length of one cwt.		Length of one ton.	
	100 yards.	40 chains or half mile.	80 chains or one mile.				
	lbs.	cwt. qrs. lbs.	cwt. qrs. lbs.	yds.	chs.	yds.	chs.
No 6	28·5	2 0 27	4 1 26	393	17·86	7,860	357·27
No. 7	24	1 3 15	3 3 2	467	21·23	9,340	424·25
No. 8	19·8	1 2 6	3 0 12	566	25·73	11,320	514·55
No. 9	16	1 1 1	2 2 2	700	31·82	14,000	636·36
No. 10	12·7	1 0 0	2 0 0	882	40·09	17,640	801·82
Ordinary Barb Wire	21	1 2 17	3 1 6	533	24·23	10,660	484·55
Thick set or Hogwire, barbs every 3 inches	25	1 3 24	3 3 20	448	20·36	8,960	407·27
Johnston's Resisteel Wire	..	0 3 7½	1 2 15	1,077	48·95	21,540	979·09

Johnston's “Resisteel” Fencing Wire.

A new very light oval Steel Wire, very tough and pliable, and of a strength equal to that of No. 7 Common Fencing Wire.

COMPARISON OF COSTS—ONE WIRE.

	Length per cwt.	Weight per mile. cwt. qrs. lbs.	Cost per cwt.	Cost per mile. £ s. d.	Cost per 10 miles. £ s. d.
Galvanised Ordinary, No. 7	467	3 3 2	13/6	2 10 10	25 8 4
“Resisteel,” equal strength to No. 7 Ordinary	1,077	1 2 15	15/6	1 5 3	12 12 6
In favour of “Resisteel”	610	2 0 15	—	1 5 7	12 15 10

The prices given are an illustration only—not a quotation.

N.B.—“RESISTEEL” saves about 50 per cent. in the cost of a fence.

“RESISTEEL” weights over 2 cwt. less per mile and gives more than double the length of a No. 7 wire.

GUNS! GUNS!! GUNS!!!

AMMUNITION
RIFLES, etc.

SINGLE AND DOUBLE BARREL
BREECH LOADING GUNS, from

£2 2s to £10 10s.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" MANURES

Grocery Department.

The Highest Quality at
The Lowest Price



One End of Grocery Department, Invercargill.

TEA!! TEA!!

We are large buyers of Tea, and are therefore able to give Exceptional Value for the Money. We sell Tea at all our Branches, viz., DUNEDIN, INVERCARGILL, GORE, KELSO, BALFOUR AND EDENDALE, and as one centre buys for the lot we are able to get in on the best of terms.

WE SHALL BE PLEASED TO SEND
SAMPLES OF TEAS ON APPLICATION.

PROPRIETORS
"SOUTHERN CROSS" TEA

In 5 and 10 Pound Boxes	...	1s 8d per lb
In 50 Pound Chests	...	1s 6d

SPECIAL VALUE IN
STATION TEAS

In 50 Pound Chests, from 10d to 1s 6d per lb

Also, ALL KINDS OF BLENDED TEAS.

USE HIGHLAND SHEEP DIP.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SEED GRAINS



BULK GROCERY STORE.

Sundry Farm & Station Requirements

PHOSPHORUS, in 5 and 10 lb Tins
 BI-SULPHATE OF CARBON
 ENGLISH BROWN ROCK SALT
 AGRICULTURAL COARSE SALT
 CASTOR OIL
 LEATHER OIL
 GENUINE RAW AND BOILED LINSEED OIL
 NEATSFOOT OIL
 PAINTS

WHITE AND RED LEAD
 HEMATITE
 BRANDING PAINT
 WOOLPACKS
 CORNSACKS
 BINDER TWINE
 SEAMING TWINE
 SHEARS
 SHARPENING STONES

And Everything that is Required.

BE SURE AND USE "CHALLENGE" TURNIP MANURES.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" SEEDS

SADDLERY DEPARTMENT

We make all our Harness and Covers, and are, therefore, able to recommend the same to our Customers.

Our "DREADNOUGHT" Horse Cover cannot be improved upon. The very best canvas that is made is put into them and the back seam is double stitched. Farmers wishing Covers made to order can, by leaving their orders in the morning, get the goods in the afternoon. You can select your Canvas, Felt or Lining.

HORSE COVERS
COW COVERS
TARPAULINS
RICK COVERS
OIL COATS
GIG APRONS
HORSE CLIPPERS
WHIPS, CHAINS
EMBROCATION
HARNESS DRESSING, Etc.
SADDLES AND BRIDLES
HARNESS OF EVERY DESCRIPTION
CART COLLARS
WINKERS AND HAMES



OUR PRICES
ARE AS
LOW AS
POSSIBLE.



CALL and
INSPECT the
ABOVE



Gore Merchandise Department.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SWEDES

LAND DEPARTMENT.

We take credit for working our Land Department on really up-to-date methods. In the good old days, when a dozen or so Stations filled up a province, it was not a difficult matter to keep a record of all the properties for sale. Now, with all the really good agricultural land closely settled, it takes all the system of a thoroughly-equipped department to keep in touch with likely vendors.

The most up-to-date methods of keeping in touch with all probable sellers is, of course, quite futile unless it is accompanied by a system which enables us to find out all likely buyers both from within the district and from without.

The price of land in Southland, and in many parts of Otago, is considerably less than the prices ruling in the North, and in consequence large numbers of northern men are looking this way for land. To enable us to keep thoroughly in touch with Northern buyers, we have found it necessary to establish

Agencies in TIMARU, CHRISTCHURCH, WELLINGTON & AUCKLAND.

If your farm does not quite suit you, do not hesitate a moment ; send along word, and our Land Department Manager will promptly visit your property and arrange your business, including financial details.

We make a speciality of

Sales by Public Auction.

Besides the ordinary newspaper advertisements we communicate privately with hundreds of likely buyers throughout the Colony.

WE DO NOT DO YOUR BUSINESS FOR NOTHING, BUT WE WORK FOR OUR COMMISSION

LIVE STOCK.

AUCTION SALES of live stock are held by us at the Centres on opposite page. We make it our business to safeguard the interests of clients by employing only experienced stockmen, capable of drafting stock in such a manner as to command the highest prices. In the absence of the owner careful valuations are made, and the prices offered must be satisfactory to us before sales are effected.

Private sales of horses, cattle, and sheep are made daily. Arrangements are in force by which we are promptly advised of the movements of the stock markets throughout the South Island, and, having a daily report of the London meat market from our own London office, reliable information is at the disposal of clients.

Special attention is paid to the selling of **PEDIGREED STOCK**, both within the colony and beyond it. We ship annually a large number of stud sheep to Australia and South America. We also sell every year several drafts of Clydesdale Entire Colts for the Australian market.

We shall be glad if Stud and Flock-masters will keep us fully posted with up-to-date particulars of their Sale Stock.



This Photo shows a Section of our Dunedin Horse Saleyards with Sale in Progress.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SWEDES

We hold Periodical Stock Sales as follows:

BURNSIDE CATTLEYARDS, every.....
Wednesday

BALCLUTHA, every Alternate Friday

OAMARU, every Tuesday

PALMERSTON SOUTH, First Monday in
each Month

DUNEDIN HORSE SALEYARDS, every
Saturday and Special Sales as Required

LAUDER, dates as Advertised

WAIPIATA, dates as Advertised

ROUGH RIDGE, dates as Advertised

MIDDLEMARCH, dates as Advertised

TUAPEKA MOUTH, dates as Advertised

CLINTON, Fortnightly, Thursdays

WOODLANDS, First Wednesday in each
Month

WINTON, First Thursday in each Month

THORNBURY, First Friday in each Month

OTAUTAU, Second Friday in each Month

WAIRIO, Second Wednesday in each Month

WYNDHAM, Last Thursday in each Month

WALLACETOWN, Alternate Tuesdays

GORE HORSE BAZAAR, Weekly, on
Saturdays

GORE STOCK SALE, Fortnightly, on...
Tuesdays

MATAURA, Second Tuesday every Month

RIVERSDALE, Third Tuesday in the Month

BALFOUR, Third Wednesday in the Month

WAIKAKA, Last Friday in the Month

THE "WOLSELEY"

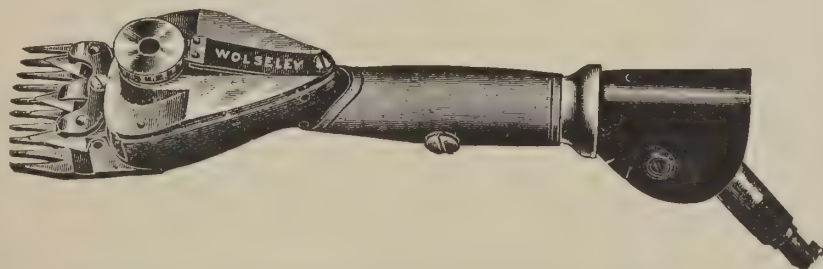
SHEEP SHEARING MACHINE

Over...

10,500 Machines

Erected

Every Year



For Every

10 Machines of

All other Makes in
use there are

200 "Wolseleys"

With the present Price of Wool you will Pay for the Machine the 1st Year.

WRIGHT, STEPHENSON & CO., LTD.,

Agents for Otago and Southland.

WRIGHT, STEPHENSON & CO. LTD.

'CHALLENGE' SEEDS

WOOL DEPARTMENT

DUNEDIN WOOL SALES :

FIRST SALE
December 19th, 1907, 2 p.m.
SECOND SALE
January 23rd, 1908, 9 a.m.
THIRD SALE
February 14th, 1908, 9 a.m.
FOURTH SALE
March 5th, 1908, 4 p.m.

INVERCARGILL WOOL SALES :

FIRST SALE
December 17th, 1907, 2 p.m.
SECOND SALE
January 27th, 1908, 9 a.m.
THIRD SALE
February 11th, 1908, 3 p.m.



Wool on View in our Stores. No Dark Corners!!

It is practically impossible to forecast the future of the Wool Market with any degree of certainty, and from our experience the one who knows most says least.

We can, however, write the following with every feeling of confidence :



GLENCAIRN WOOL.

Sell your Wool in the Colony!
Let others take the risk of Shipment!
We give prompt Cash Settlements!
You keep the Money in the Country!
We are the oldest-established firm in the Trade!
We have had 46 Years' Experience!
We have the most Up-to-date Show-rooms!
Our Charges are on the Very Lowest Scale!
We are in daily Cable Communication with
London, which keeps us posted in all
Latest Developments!
We pass on all Information to our Clients!
We offer you our Services, and are prepared
to assist you in every way possible in
Selling your Wool to the very best
Advantage!

RABBITSKINS.

We inaugurated Sales of these by Auction many years ago, and have ever since done a very large business in the line. As in other lines, close attention to our Clients' interest is our first consideration.



300,000 Rabbitskins—One Week's Sale at our High Street Stores, Dunedin.

SALES:
Dunedin, every Monday.
Invercargill, every Monday.

Use S.A.P. Rabbit Poison.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" SEEDS

Hides

SALES : Dunedin—Every alternate Thursday, starting at 9 a.m.
Invercargill—Every Monday.

This is quite an important branch of our business and one to which we devote considerable time and trouble.

When consignments reach our stores they are immediately unpacked and salted down in our specially prepared hide pits until date of sale. When hides arrive in a green state a charge of sixpence each is made for salting. All other hides are salted free of charge.



✂ ✂ Hide Sale in Progress at our Bluestone Store, Dunedin. ✂ ✂

You will see by above picture our method of exposing hides for sale in individual lots, which is quite unique and greatly praised by the buyers, who can see exactly what they are buying and consequently bid with confidence for every lot, to the ultimate benefit of the vendors

When consigning hides from a distance always mark with tin tags tied on with wire. Paper tags are of no use.

When hides are bagged always mark initials on each bag with *red paint*. Black marks are useless, as they get completely obliterated with the brine.

Sheepskins

SALES : Dunedin —Every Tuesday at 2 p.m. during winter and spring and every alternate Tuesday during wool-season.
Invercargill.—Every Monday, except wool-season, then every alternate Monday.

We give this department special attention, all green skins are carefully stretched and dried before being offered for sale and every consignment is valued and protected at auction, up to full market rates.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS MANGELS

BOOT DEPARTMENT

During the past decade there has been extreme competition by Manufacturers to secure the New Zealand Boot Trade, and the consumer is consequently reaping the benefit in being able to obtain a better article.

WE STOCK

HIGH-CLASS BOOTS...

OF ALL DESCRIPTIONS

At PRICES

That Will Astonish You!!

No More Dangerous Burns

No More Dissolving with
Bi-sulphide

No More Waiting for Powder
Trains

No More Crops Destroyed by
Rabbits

Phosphorise your
Pollard with

Won't
Fire

S.A.P.

Ready
to
Mix

RABBIT POISON

Mix one tin **S.A.P.** with 12 pints water and stir ... cost 2/-
in Pollard until of proper consistency; say, 15 lbs ... cost -/6

which makes about fifteen thousand baits, $\frac{3}{8}$ -inch long, at the expense of 2/6, and each bait contains three times the fatal dose of phosphorus for a rabbit.

Manufactured by SAYERS, ALLPORT Pty. Ltd., 4 O'Connell Street Sydney.

TURNING THE TABLES



WON'T
FIRE

S.A.P.

RABBIT POISON

READY
TO MIX

S.A.P.

Is neatly Packed in Cases
containing respectively
18, 12, 10, 8, 6 and 4 Tins

PRICE: 2S PER TIN NET.

This is a Special Preparation of
Phosphorus dissolved by a
Patent Process which makes
it absolutely safe to handle.

TINS SHOULD BE DESTROYED WHEN EMPTIED.

For GROCERIES, try WRIGHT, STEPHENSON & CO.

WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" SEEDS

Brown's Trace Draught Springs

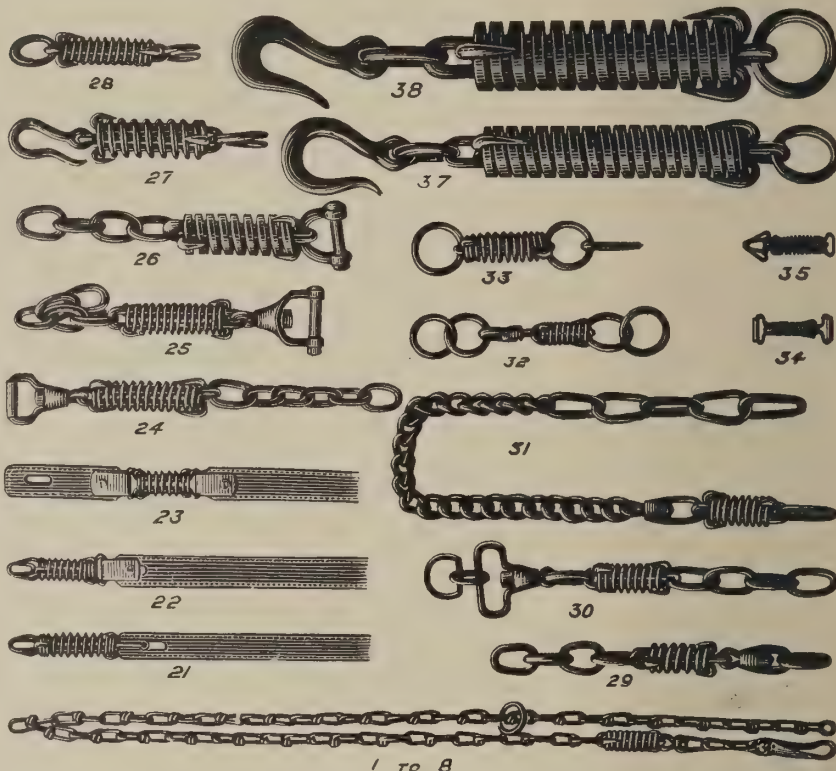
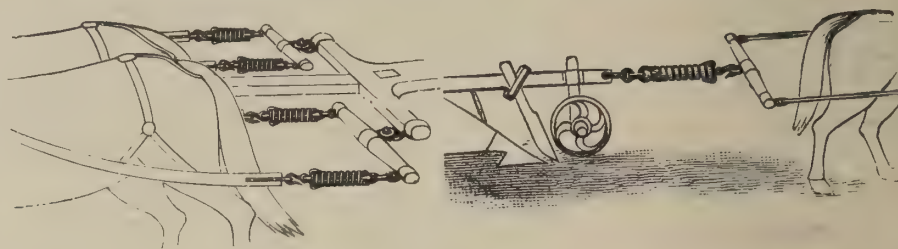
From 2s. upwards.



French Artillery Tests have proved that when "Draught Springs" were used the load could be Increased 25 per cent.

The Springs can be bolted or sewn to any kind of Harness. They will prevent Sore Shoulders and Rupture, and will increase the working power of the Horse

Write for Particulars, and state nature of work to be done and number of Horses employed.

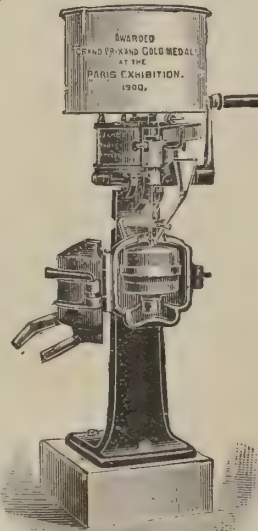


The Best
Separator
on the
Market

This Melotte Cream Separator

Will be sent to you on receipt of a postcard carriage paid—no prepayment whatever required,—so that it may be tried in your dairy for 14 days, when if entirely satisfactory, it may be bought for cash, or on easy payment terms.

DON'T DELAY BUT
WRITE TO-DAY



THE MELOTTE

Takes
One-third Less Power
than others.
Skims Cleanest,
Lasts Longest,
and has
The Largest Sale in the
United Kingdom.

75,000 Machines in daily
use throughout the world.

SIMPLE
CONSTRUCTION
LIGHT
RUNNING
EASY TO
CLEAN

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SWEDES

HIGHEST AWARD AND MEDAL RECEIVED AT WORLD'S COLUMBIAN EXPOSITION

A MODERN STABLE is not Complete

... WITHOUT A ...

Kasper Patent



Self-Acting

Oats Cleaner

CLEAN OATS PREVENT HEAVES, COLIC,
BROKEN WIND, and OTHER SICKNESS
PECULIAR TO HORSES. . . .

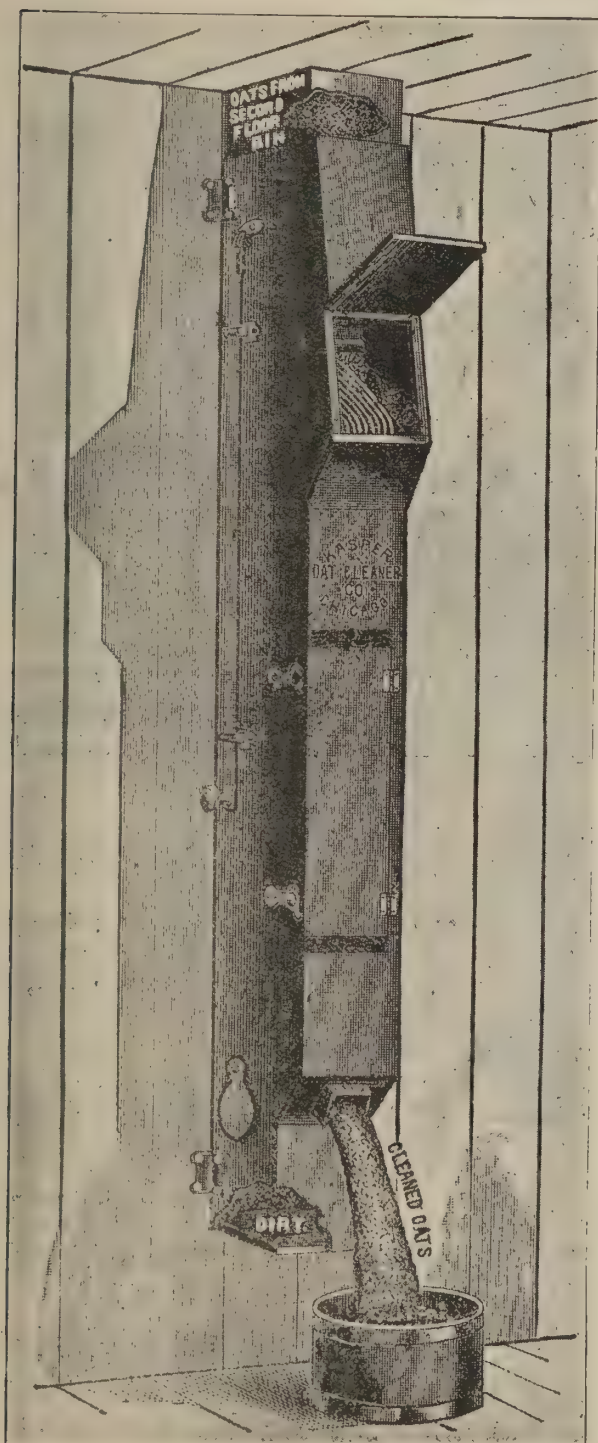
The only way to get your land free from weeds is to prevent them being sown. A great quantity of small weeds such as Yarr are constantly being sown through the medium of imperfectly cleaned horse feed. The KASPER will take every weed out from your horse feed, enabling you to utilise all your seconds without the labour of putting them through the fanners.

Erect the KASPER over your feed box, cut a square hole in the floor of the loft, immediately above the machine. This enables you to feed the machine from the loft.

Price : £6 10s.

All you do is to empty the Oats into the KASPER instead of into the feed box. The machine does the work itself.

WRIGHT, STEPHENSON & CO., Ltd.
SOLE AGENTS.



WRIGHT, STEPHENSON & CO. LTD.

"CHALLENGE" SEEDS

Use...

"HIGHLAND" SHEEP DIP

And TOP THE WOOL MARKET

POISONOUS & NON-POISONOUS

TOP PRICES for Wool, 1906-1907,

All Dipped with "HIGHLAND DIP."



HALF-BRED WOOL, 15d.



CROSSBRED WOOL, 14d.



MERINO WOOL, 13½d.

The maker of 'Highland' Dip, Mr. Alex. Robertson of Oban, Scotland, is a trained, certificated, manufacturing chemist. This in itself is a guarantee that the Dip will be made on thoroughly up-to-date scientific lines.

The result is:—

A Dip which contains the full strength of an Arsenical Dip together with the full strength of a Carbolic Dip, each of which is being sold to-day in New Zealand at a similar price to 'Highland.'

The Killing Power of the 'Highland' is therefore **twice as effective** as either an Arsenical or a Carbolic Dip. To enable the fleece to retain the Dip, the active ingredients are, in the paste variety, mixed together with a rain-resisting compound composed largely of wool fat and pine resin, which is insoluble in cold water, and therefore cannot be washed out of the fleece by rain.

The 'Highland' Dip not only kills the living parasite but **destroys the egg** by a most artful process. All descriptions of eggs are largely composed of albumen which is commonly known as the white of the egg. Certain properties of the Dip have the power of coagulating this albumen, and a few days after dipping the tick and other eggs are as if they had been hard boiled.

PASTE (WATERPROOFING VARIETY)

POISONOUS

TERMS—2½% Discount allowed for cash within one month. A **Special Discount** of 5% will be allowed to all buyers of 4 cwt., and of 10% to all buyers of 8 cwt. or more.

DIRECTIONS FOR USE.—For every 100 gallons of water, take 16 lbs. of paste, cut it up and put it in a tub, and then over it pour about four times its bulk of boiling water. When thoroughly dissolved pour the mixture into the bath and stir well.

PRICES:

In Drums, each containing 80 lbs. (sufficient for 500 galls. bath) **32/6** per Drum.
In Drums, each containing 32 lbs. (sufficient for 200 galls. bath) **13/-** per Drum.
In Casks, weighing 4 to 4½ cwt. (equal to **31/5** per Drum of 80 lbs.) **44/-** per cwt

WRIGHT, STEPHENSON & CO. LTD.

GARTONS YELLOW TURNIPS

Robertsons' "Highland" Dips

Have been Gazetted the Official Dips of the British, Cape and Argentine Governments.

LIQUID COLD WATER VARIETY

Poisonous and Non-Poisonous

DIRECTIONS FOR USE.

Poisonous Fluid, Use 1 gallon to 80 gallons water. Non-Poisonous Fluid, use 1 gallon to 100 gallons water. To mix, first shake the drum well and then pour into a tub. Add cold water in the proportion of about four times as much water as Dip. Stir this well up and then empty into the bath.

PRICE:

POISONOUS.

In 5-gal. Drums (sufficient for 400-gal. bath) 26/-
In 2-gallon Drums " " 160 " " 11/-

NON-POISONOUS.

In 5-gal. Drums (sufficient for 500-gal. bath) 25/-
In 2-gallon Drums " " 200 " " 11/-

TERMS.—2½% Discount allowed for cash within one month.
A Special Discount of 5% will be allowed to all buyers of 30 gallons, and of 10% to all buyers of 60 gallons or more.

POWDER

Variety (Poisonous)

A PERFECT CURE FOR SCAB

AN ABSOLUTE PREVENTATIVE FOR MAGGOT FLY

A SURE EXTERMINATOR OF TICKS AND LICE

DIRECTIONS FOR USE.

Break down all lumps in the mixing bucket, pour in a very little water and mix first into a stiffish paste, then add a little more water to make it as thick as cream. It is then ready to be added to the bath.

PRICE:

Packed in Cases (sufficient for 1000 galls. wash) 55/-
Packed in Packets " 100 " 6/-
" " " 68 " 4/-
" " " 17 " 1/-

TERMS.—2½% Discount allowed for cash within one month.
A Special Discount of 5% will be allowed to all buyers of 8 cases or more, and of 10% to all buyers of 10 cases or more.



Dipping Sheep with "HIGHLAND" Sheep Dip at Mr. Andrew Christie's Glencairn Station, Dipton.

Have you tried S. A. P. Rabbit Poison.

WRIGHT, STEPHENSON & CO. LTD.

GARTONS SEED GRAINS

Robertson's Red Cross Animal Medicines.

Robertson's Terebene Balsam

Prevents inflammation in difficult foaling, lambing, or calving
Prevents blood poisoning after cutting and tailing.

Cures sore teats, stops bleeding at the navel.

Neats wounds, sores, saddle galls, and dog bites.

Internally.—It is a specific for worms, colic, hoven, staggers, glanders, strangles, colds.

Cures white scour, husk, inflammation of the bowels.

Bottles 1s. and 2s.

Robertson's Red Cross Scour Specific

Cures diarrhoea or scour in horses, cows, calves, sheep, and lambs.

Case 2s 6d and 5s.

Robertson's Red Cross Cleansing Drench FOR COWS

Prepares cows for calving—Cures bad cleaning—Prevents milk fever and inflammation—A sure remedy for costiveness, garget, colds, fever, and hidebound.

Case containing 12 Drenches 13s 6d.

Robertson's Chloraline Red Cross Gripe Drink

Gives instant relief in cases of spasmodic and flatulent colic, gripes, fret, and inflammation.

Bottles 2s.

Robertson's Tonic Worm Powders FOR HORSES

Expels all worms, tape worms, large and small round worms.

Continuously manufactured by

Mr. Alex. Robertson for over 25 years.

Case 3s 6d.

Robertson's Sal-Vitalis Condition Powder

For racers, hunters, carriage and draught horses—Brings all animals into good health and keeps them in prime condition

Tins, 2s, 5s, 10s.

Robertson's Chemical Dishorner

Performs the operation painlessly, rapidly, and perfectly.

Case 1s 9d.

Robertson's Horse Blister

Remedy for lameness, enlargements, spavins, splints, curbs, thickened tendons, ringbones, swellings, etc.

Ointment Blister, pots 1s 6d and 2s 9d.

Liquid Blister, bottles 2s. 6d.

Robertson's Terebene Embrocation

For sprains, curbs, sprung sinews, splints (when forming), lameless swelling, rheumatism, weakness of joints.

Bottles 1s 6d.

Robertson's Carbolic Soft Soap

Will kill vermin, cure cracked and greasy heels, mange, and skin diseases—For washing horses, cattle, and dogs.

Tins, 6d, 1s, 2s 6d, and 4s 6d.

Robertson's Horse Physic Ball

A prompt and efficient Purge.

Six Drams 6d each; 5s 6d dozen

Seven Drams 7d each; 6s 3d dozen.

Eight Drams 8d each; 7s dozen

Robertson's Red Cross Worm Drench

Is a sure remedy for worms in the stomach and intestines, lung worms, tape worms, liver fluke, etc.

Case containing five 5-lb packets, 35s.;
Single 5-lb packet, 8s.

N.B.—Each 5lb packet makes 5 gals. of medicine, sufficient for 400 sheep or 800 lambs. Two drenching tubes are given with each packet, one for sheep and one for lambs.

Robertson's Foot Rot Paste

Speedy and permanent Cure.

Pots, 1s, 2s, 3s 6d, and 6s.

Robertson's Red Cross Ringworm Salve

Speedy and efficient Cure.

Pots, 1s, 2s, 3s 6d, and 6s.

Robertson's Fly Powder

Prevents Fly Strike in Sheep.

Tins, 1lb 1s; 20lbs 15s; cases containing six 20lbs tins 80s.

WRIGHT, STEPHENSON & CO. LTD.

GARTON'S YELLOW TURNIPS

Molasses Fodder...

Containing 80 per cent. **PURE MOLASSES**, in a **DRY. MEALY CONDITION.**

Packed in Sacks. Can be Fed to Stock by Sprinkling it through the Ordinary Feed.

DRY Is Rich in Sugar !
A Nutritious Feed !
A Great Appetiser and Health Promoter !

MOLASSES A Condiment to Dry and Unpalatable Foods !
Maintains the Bowels in a Healthy Condition !
Stimulates Digestion !

FODDER A Cheap, Nourishing Food for all kinds of Stock—
Dairy Cows, Store Cattle, Calves, Horses, Sheep, Pigs !

For **DAIRY COWS** it is especially valuable, increasing the yield of milk and improving its quality.

STORE CATTLE fed with it rapidly put on flesh.

CALVES thrive on it.

SHEEP take it readily, either alone or mixed with other foods.

PIGS fatten on it. It should not be given to Brood Sows.

For **HORSES** it is a cheap economical food. Animals in poor condition rapidly improve on this diet

INSTRUCTIONS re USE.—As to the quantities to be fed to stock, it may be said that 5 to 6 lb daily can advantageously be given with the other food to Horses and Cows, 2 lb to Calves, and 1 lb to Sheep and Pigs.

SKOFF!

SKOFF!

(REGISTERED)

What is it?

What does it do?

SKOFF is the most perfectly assimilated Condiment to be used in the food of Horses, Sheep, Cattle, Pigs and Poultry.

SKOFF is an Absolute Cure for Worms and Parasites. SKOFF contains No Poison. SKOFF is the Cheapest Food on the Market. SKOFF is the Most Perfect Preventative for SWINE FEVER.

The Proprietors of **SKOFF** have in their possession the highest Testimonials as to its efficiency, not from obscure and comparatively unknown people of little consequence, but from those possessing the highest authority and diplomas in the medicinal world. Also from Cattle and Sheep Breeders of world-wide renown, and from Trainers and Owners whose names are household words in racing and sporting circles.

The Government Poultry Expert speaks in the highest terms of **SKOFF**, and of the benefits derived from using it.

The farmer, or whoever uses **SKOFF**, is guilty of no extravagance in feeding, but on the contrary, he saves half it would otherwise cost him in being able to utilise his hay or fodder which may have been badly harvested or spoilt by the effects of weather, for, by mixing **SKOFF** with any kind of forage, all animals will eat it greedily—and **THRIVE**.

SKOFF GIVES LUSTRE TO THE COAT, and there is not a better food in the world than **SKOFF** for topping up Lambs or Cattle for either Show or Market.

SKOFF LEAVES NO AFTER EFFECTS, and can be used constantly, as it **CONTAINS NO POISON**.

The proprietor of **SKOFF** will be pleased to see at the **SKOFF** Office, Hobart, any gentlemen interested in Horses, Cattle, Sheep, Pigs and Poultry, for the purpose of discussing **SKOFF** and its Merits.

Remember!

SKOFF is an Absolute Cure for WORMS in SHEEP, HORSES AND CATTLE.

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Paspalum Dilatatum ...	41	Prize Winner Yellow Globe Mangel ...	86	Highland Sheep Dip ...	112-113
Sheep's Burnet ...	41	Mammoth Long Red Mangel ...	86	Robertson's Red Cross Anim'l M'dicin's ...	114
Chicory or Succory ...	41	Gartons' Seeds ...	87	Molasses Fodder ...	115
Lawn Grass ...	41	FIELD CABBAGE—		Skoff ...	115
		Gartons' Field Cabbages ...	88-89	"Steel Queen" Disc Harrow ...	116
		" " Carrots ...	90	White Oil Engines ...	117
		Thousand Headed Kale ...	90	Water Raising Appliances ...	118
		Gartons' Kohl Rabi ...	91	Machinery ...	119
				Incubators and Brooders ...	120
				Molasses ...	120

ORDER FORM.

1907

To Messrs. Wright, Stephenson & Co., Ltd.

DUNEDIN.

Dear Sirs,

Kindly forward to

STATION
SIDING

on (date) the undermentioned Manures, Seeds, etc.

Yours faithfully,

Name

Address

No.		MANURES.	Price per Ton.
1	TONS	KAINIT	£4 10 0
2	"	POTASH MANURE	7 10 0
3	"	MURIATE OF POTASH	15 10 0
4	"	SULPHATE OF POTASH	16 0 0
5	"	THOMAS' PHOSPHATE	4 17 6
6	"	" "CHALLENGE" GRAIN MANURE	5 15 0
7	"	" "TURNIP MANURE	5 10 0
8	"	" "DEFIANCE" TURNIP MANURE	5 0 0
9	"	" "CHALLENGE" TURNIP STARTER	4 0 0
10	"	" "ENTERPRISE" TURNIP MANURE	4 15 0
11	"	" "CHALLENGE" RAPE MANURE	5 17 6
12	"	" "RAPE & GRASS MANURE	5 10 0
13	"	" "MANGEL MANURE	4 10 0
14	"	" "POTATO MANURE	6 5 0
15	"	" "BONE MEAL	7 10 0
16	"	" "SUPERPHOSPHATE	5 10 0
17	"	" "BONE MANURE	7 5 0
18	"	NITROGENOUS GUANO	4 15 0
19	"	CHESTERFIELD GUANO	4 7 6
20	"	LADY ELLIOT GUANO	4 7 6
21	"	CORAL QUEEN GUANO	4 15 0
22	"	CHRISTMAS ISLAND GUANO	5 5 0
23	"	NITRATE OF SODA	16 0 0
24	"	SULPHATE OF AMMONIA	18 0 0
25	"	" "CHALLENGE" GARDEN MANURE	—
26	"	SPECIAL PEA & BEAN MANURE	—
—	"	AGRICULTURAL LIME	0 15 0

SEEDS: Agricultural, Vegetable or Flower

[illegible]

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Railage on Manures.

Mls.	Station.	s. d.	Mls.	Station.	s. d.
5	Abbotsford	3 0	29	Merton	5 4
15	Allanton	3 6	48	Middlemarch	7 1
88	Arthurton	9 8	32	Milburn	5 9
53	Balclutha	7 6	36	Milton	6 1
37	Barewood	6 2	10	Mosgiel	3 0
48	Benhar	7 1	42	Mt. Stuart	6 7
102	Bortons	10 3	91	Ngapara	9 10
44	Bushey	6 9	13	North Tairā	3 2
30	Clarendon	5 6	120	Omakau	11 0
38	Clarksville	6 3	57	Otanomomo	7 10
74	Clinton	9 1	112	Otekaike	10 8
88	Conical Hills	9 8	19	Otokia	4 0
88	Corriedale	9 8	19	Outram	4 0
41	Crichton	6 6	72	Owaka	9 0
28	Deep Stream	5 3	12	Owhiro	3 0
12	Duke's Road	3 0	41	Palmerston	6 6
50	Dunback	7 3	68	Papakāo	9 6
106	Duntroon	10 5	92	Pomahaka	9 10
110	Edievale	10 7	91	Pukerau	9 10
84	Elderslie	9 6	90	Queen's Flat	9 9
82	Enfield	9 5	85	Ranfurly	9 7
20	Evansdale	4 2	17	Riverside	3 9
56	Forsyth	7 9	56	Rock and Pillar	7 9
13	Gladfield	3 6	61	Romahapa	8 2
94	Glenkenich	9 11	101	Rough Ridge	10 3
65	Glenomaru	8 6	48	Round Hill	7 1
41	Glenore	6 6	15	Salisbury	3 6
46	Glenpark	6 11	18	Shands	3 11
37	Goodwood	6 2	52	Springs	7 5
100	Gore	10 2	50	Stirling	7 3
121	Hakataramea	11 1	44	Sutton	6 9
57	Hampden	7 10	96	Tapanui	10 0
21	Henley	4 4	93	Tapui	9 11
65	Herbert	8 6	24	Titiri	4 8
104	Heriot	10 4	58	Toiro	7 11
54	Hillgrove	7 7	34	Tumai	5 11
25	Hindon	4 10	61	Waiānakareoa	8 2
64	Hyde	8 5	26	Waiholā	5 0
47	Inch Valley	7 0	97	Waikaka	10 1
50	Johnstone	7 3	32	Waikouaiti	5 9
64	Kaihiku	8 5	68	Waimotu	8 9
55	Kakapuaka	7 8	84	Walpahi	9 6
51	Kartigi	7 4	78	Wairuna	9 3
99	Kelso	10 2	53	Waiāhuna	7 6
74	Kokonga	9 1	68	Walwera	8 9
120	Kurow	11 0	61	Warepa	8 2
60	Lawrence	8 1	78	Weston	9 3
44	Lovell's Flat	6 9	87	Windsor	9 8
69	Maheno	8 10	9	Wingatui	3 0
45	Manuka	6 10	14	Wyllie's Xing	3 4

GARTONS

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Breeds of

WHEAT

BARLEY

OATS

MANGELS

SWEDES

TURNIPS

Wright, Stephenson & Co, Ltd.

SEASON 1907 - 1908